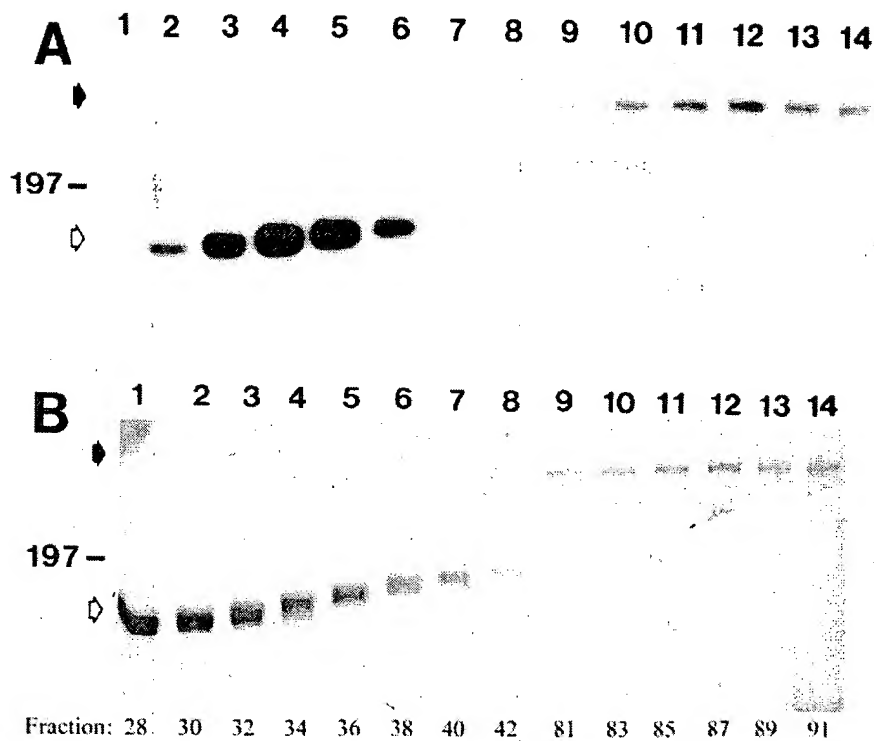




Figure 1



BEST AVAILABLE COPY

US. Patent Application

Serial No.:

09/842,930

Title:

HYALURONAN RECEPTOR FOR ENDOCYTOSIS

Inventor:

Paul H. Weigel et al.

Group:

1647

Filed:

April 25, 2001

Agent:

Kathryn L. Hester, Ph.D.

Examiner:

L. Spector

Docket No.

5820.603

SHEET 2 OF 42

FORMAL DRAWINGS



Figure 2

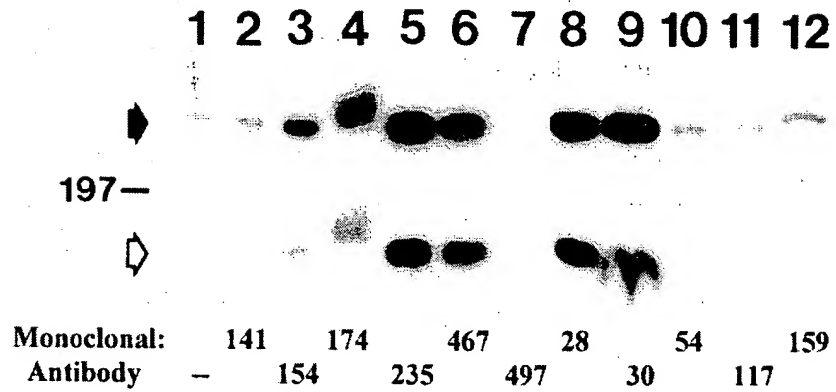
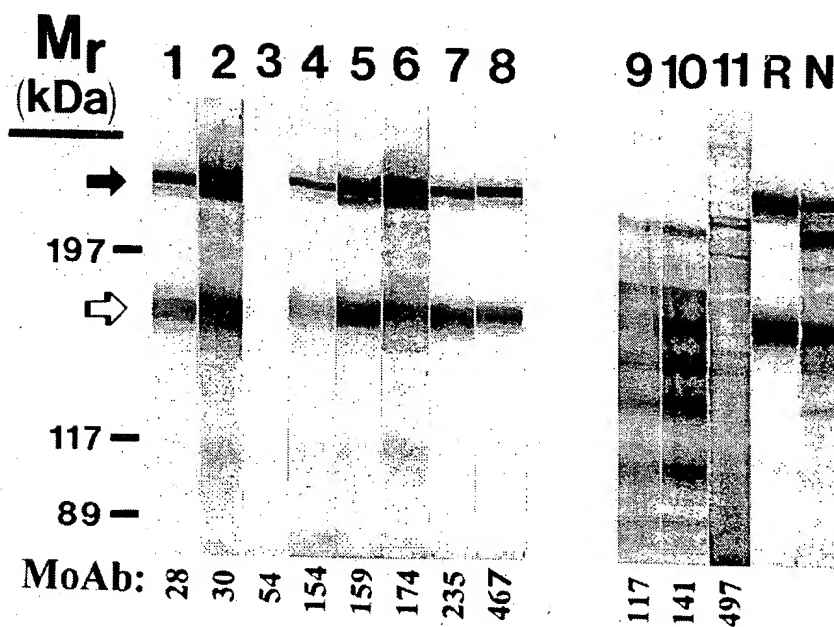




Figure 3



EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004
US. Patent Application
Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al. Group: 1647
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D. Examiner: L. Spector
Docket No. 5820.603
SHEET 4 OF 42 FORMAL DRAWINGS



Figure 4

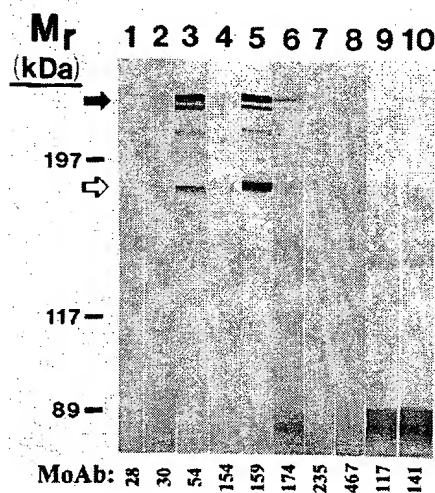
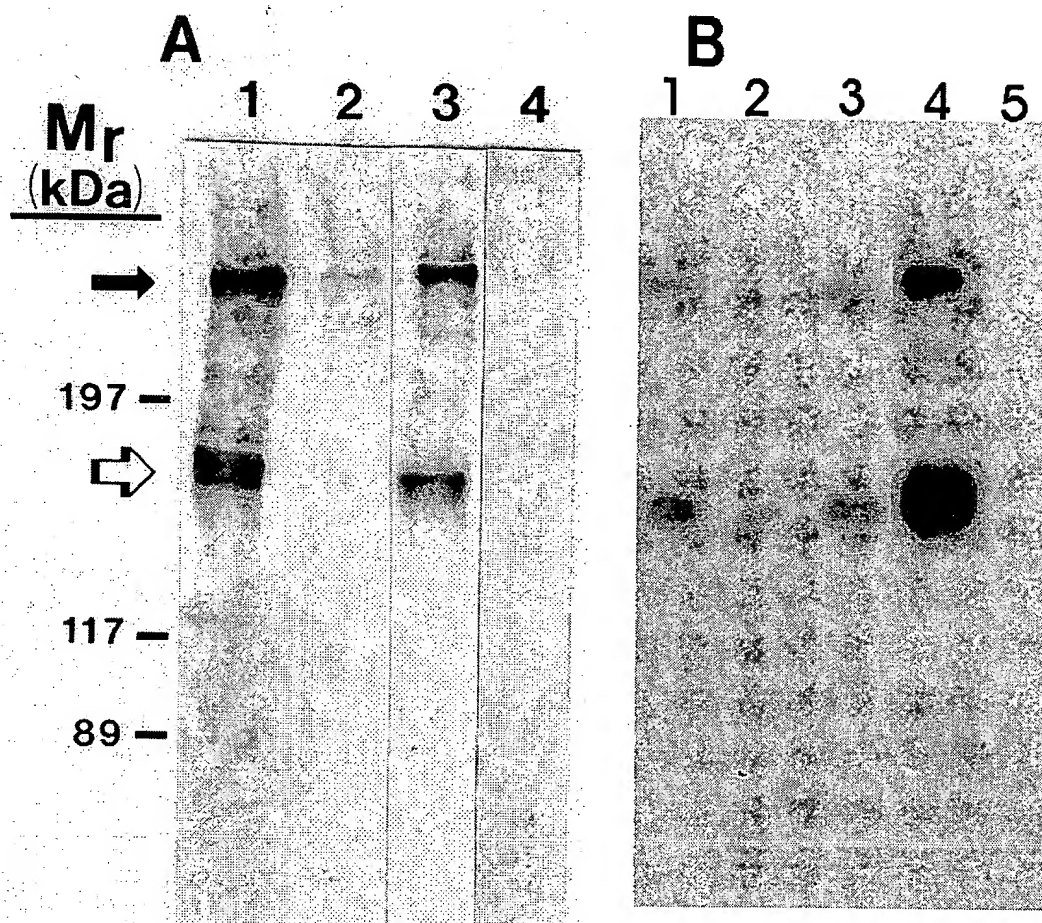




Figure 5



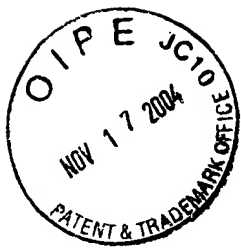
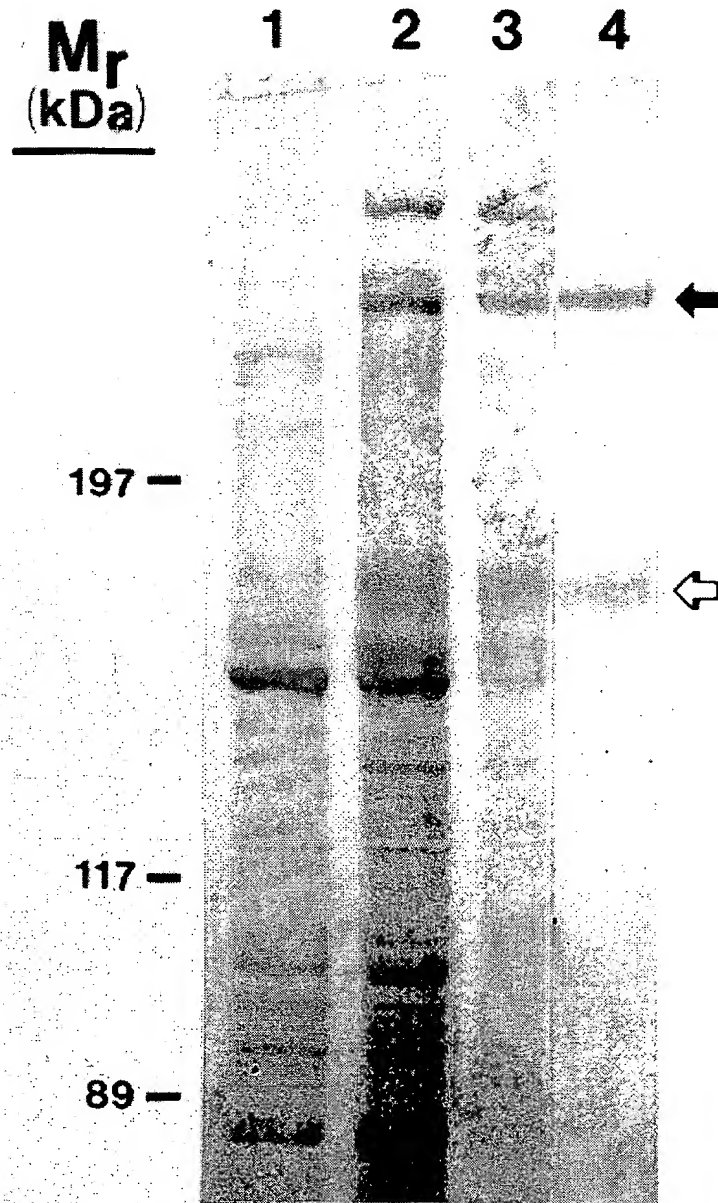


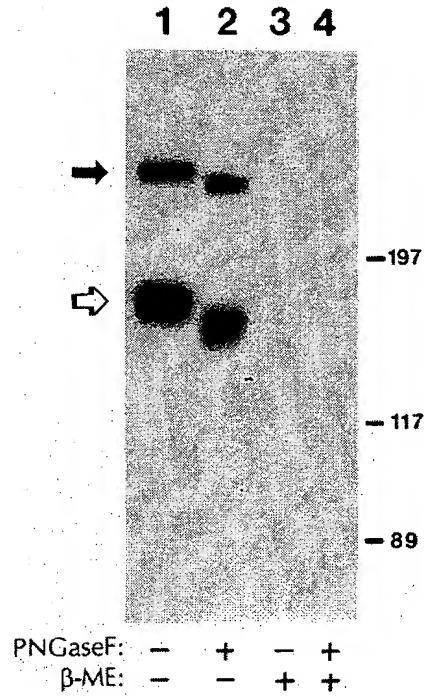
Figure 6





EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004
US. Patent Application
Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al. Group: 1647
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D. Examiner: L. Spector
Docket No. 5820.603
SHEET 7 OF 42 FORMAL DRAWINGS

Figure 7



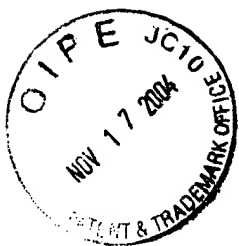
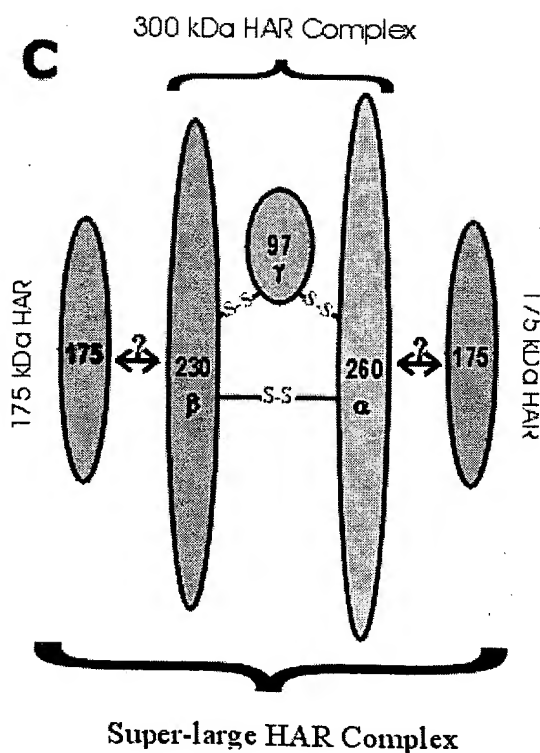
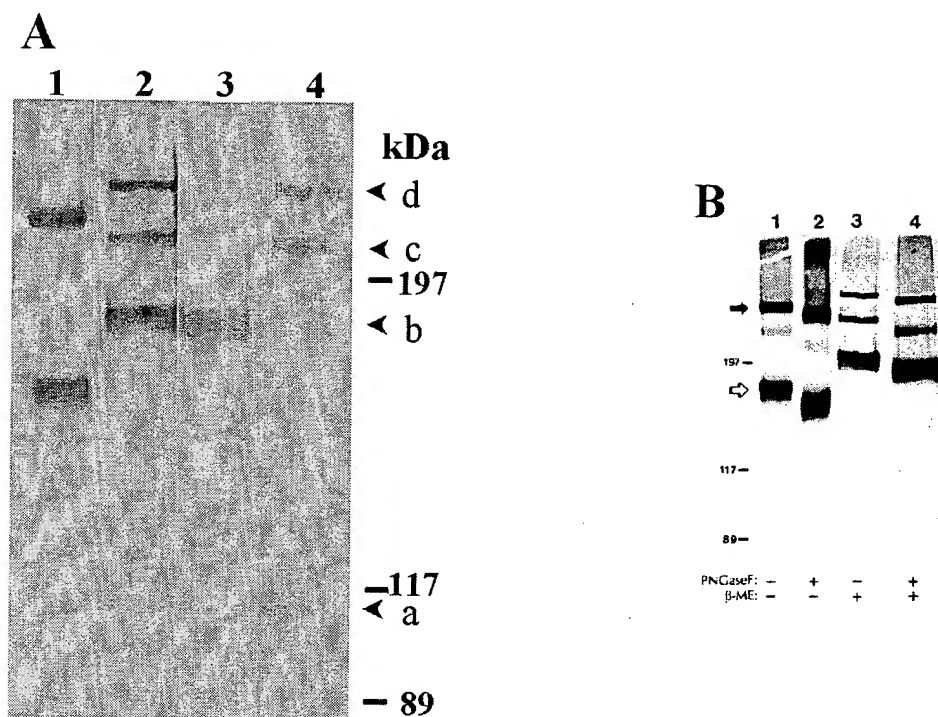
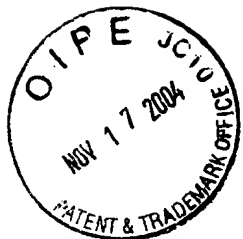


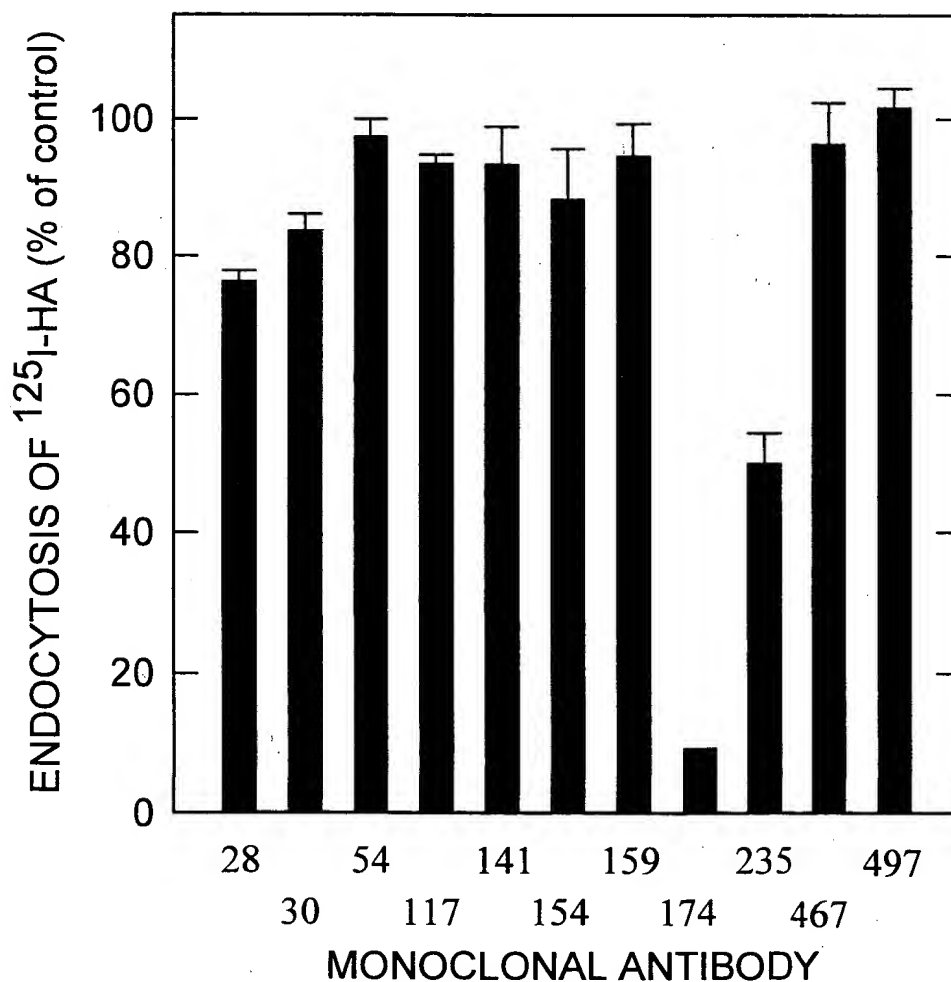
Figure 8





EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004
US. Patent Application
Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al. Group: 1647
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D. Examiner: L. Spector
Docket No. 5820.603
SHEET 9 OF 42 FORMAL DRAWINGS

Figure 9



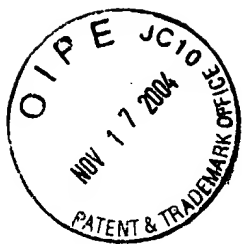
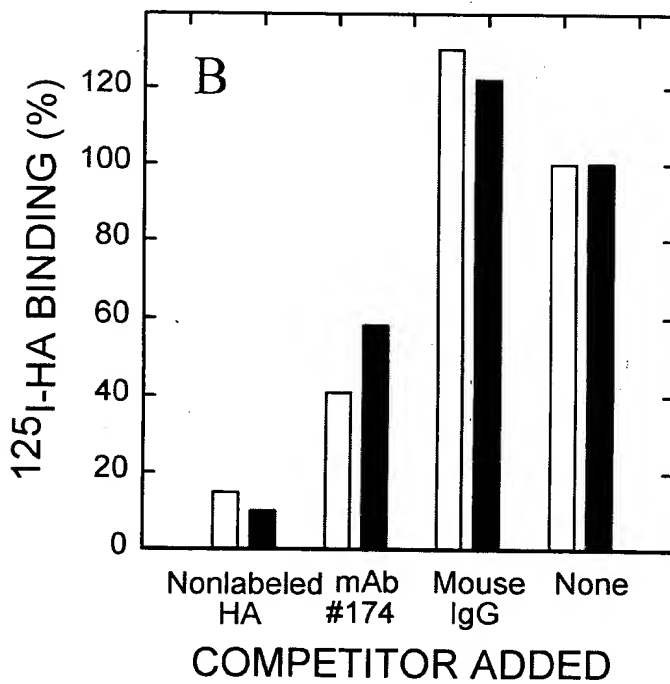
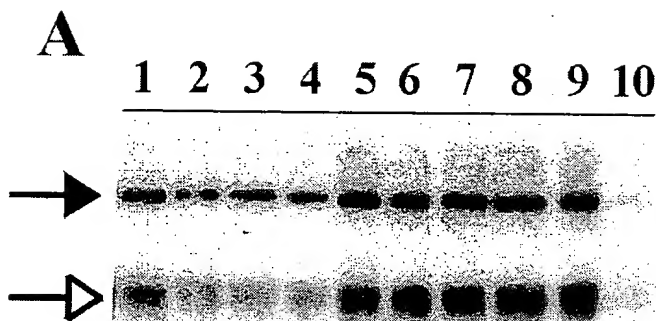


Figure 10

EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004
US Patent Application
Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al.
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D.
Docket No.: 5820.603
SHEET 10 OF 42
FORMAL DRAWINGS
Examiner: L. Spector



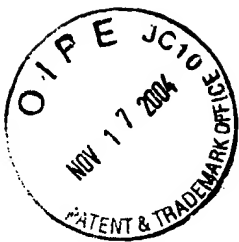
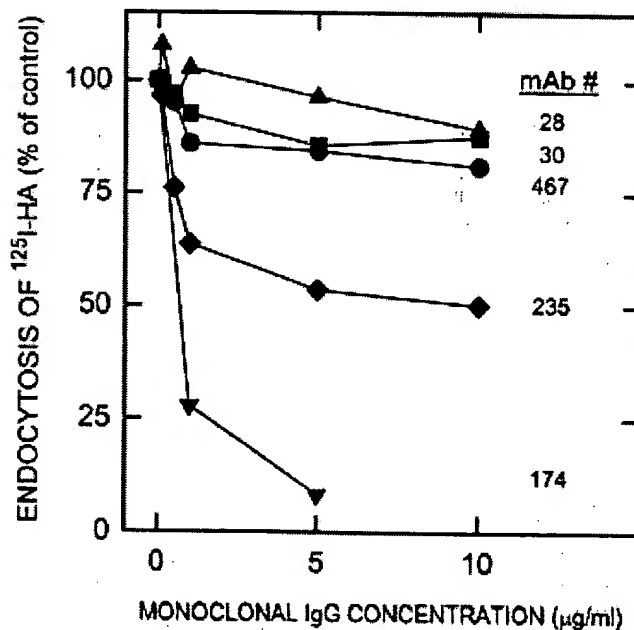


Figure 11

Antibody Inhibition of HA Endocytosis by HARE in LECs



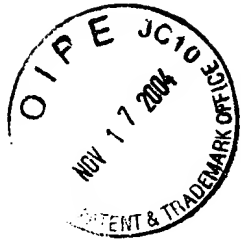


Figure 12

Antibody Inhibition of HA Binding to HARE on LECs is Temperature Dependent

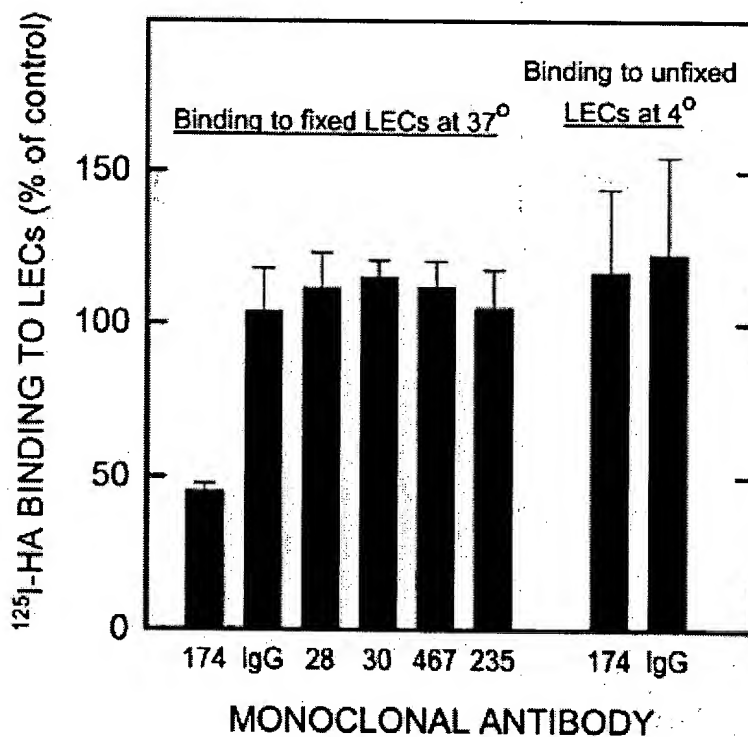
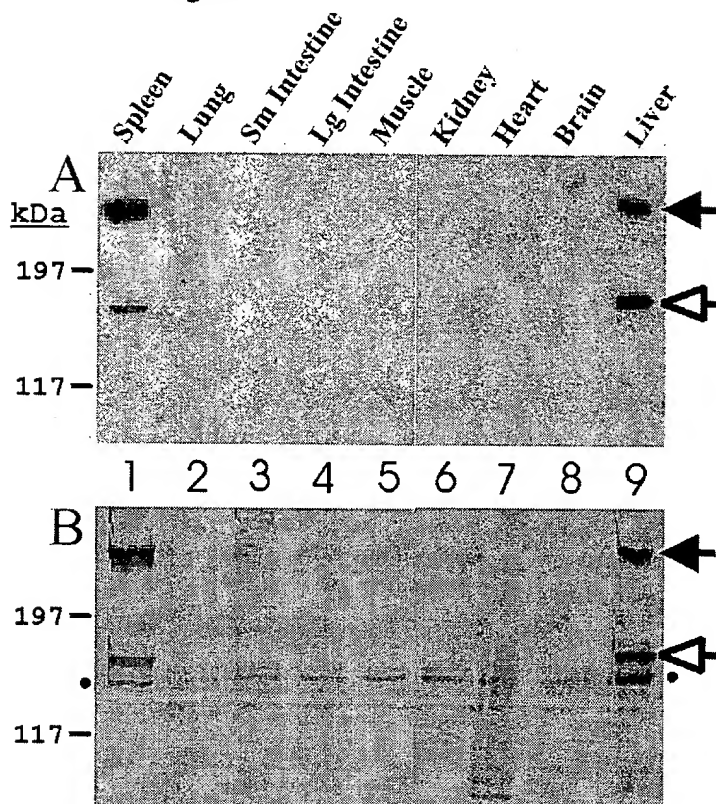




Figure 13

Figure 13



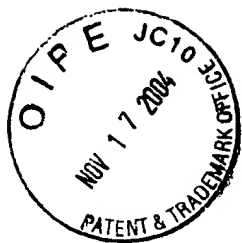
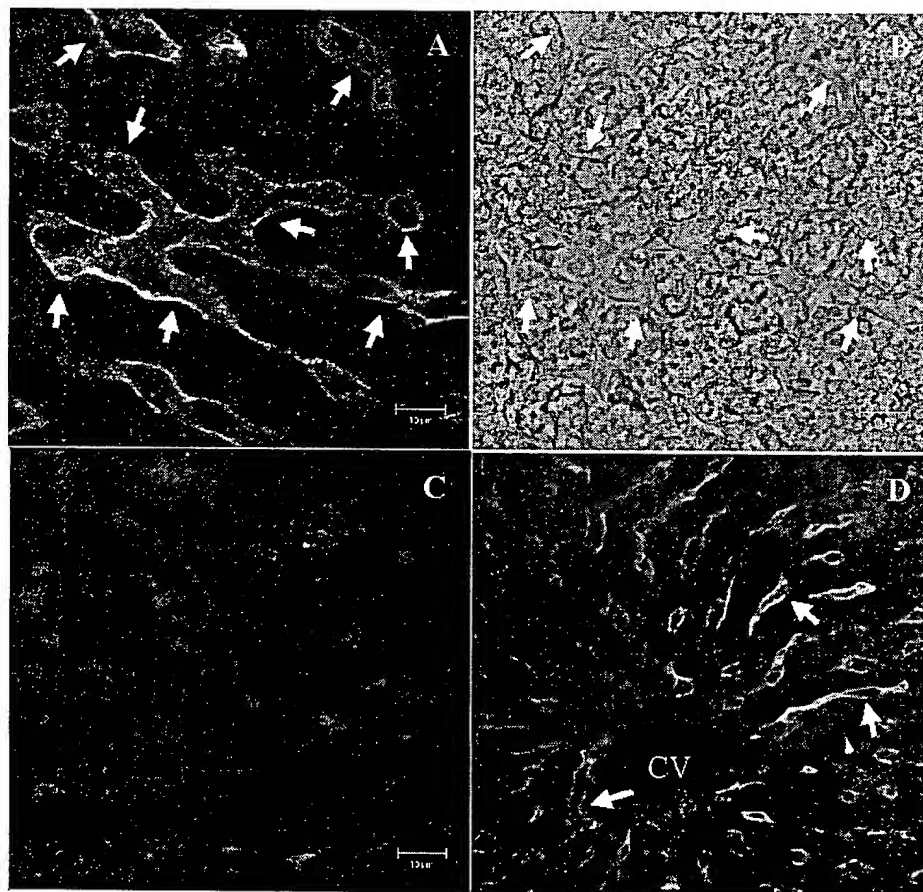


Figure 14



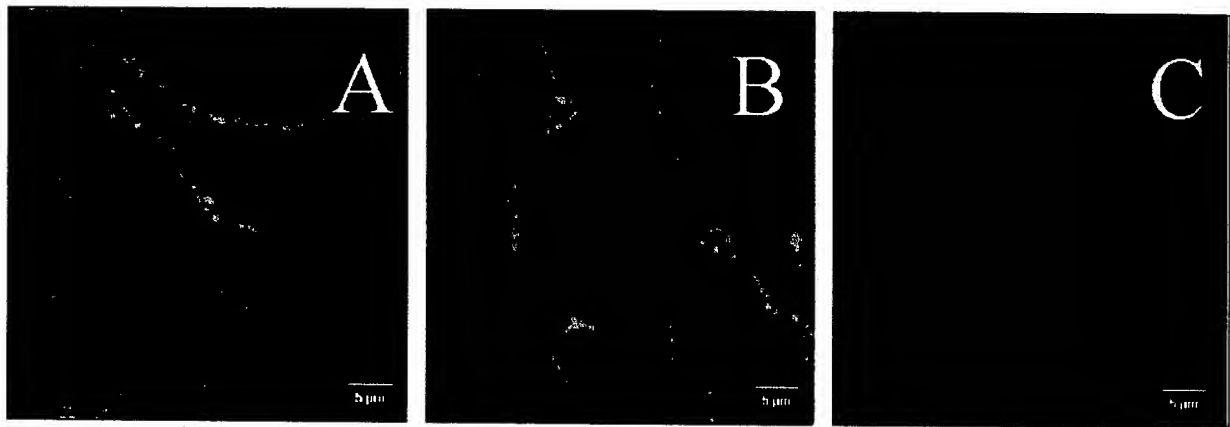
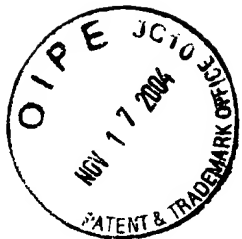
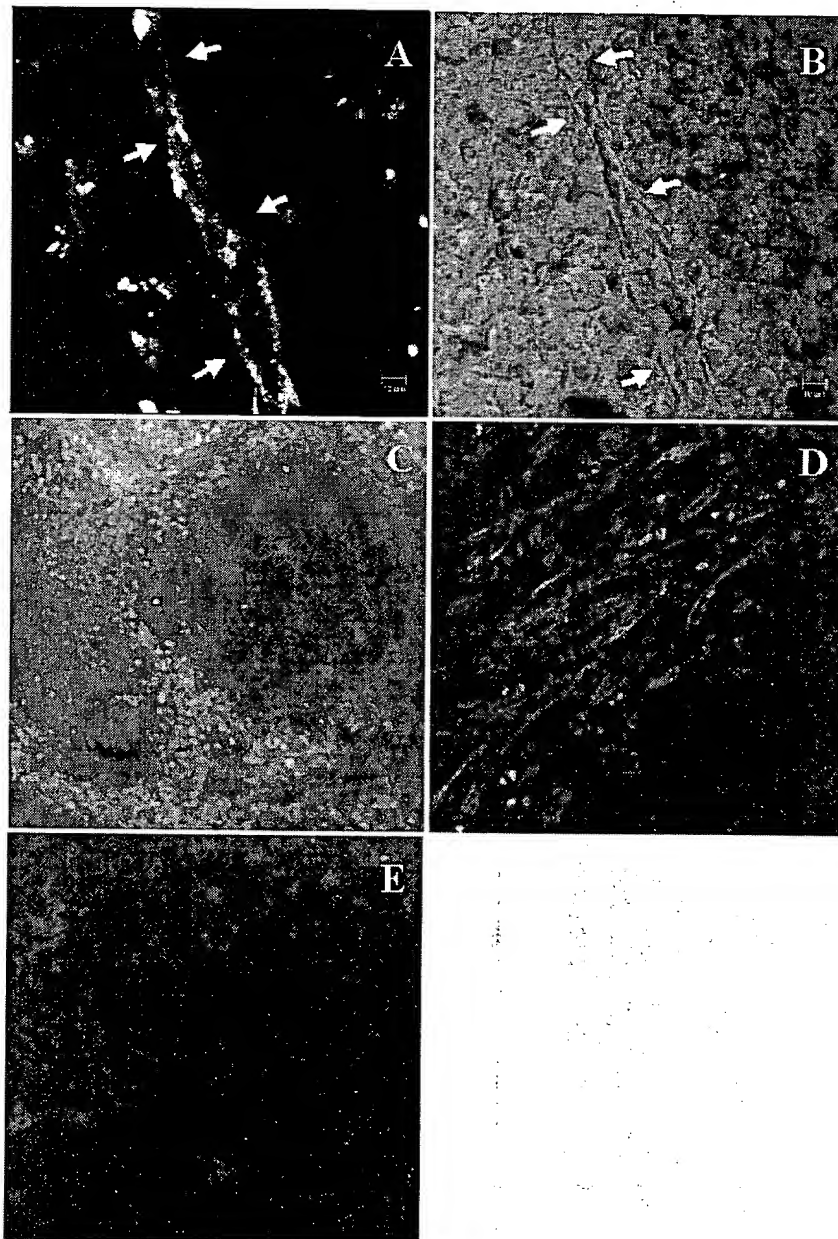


Figure 15



EXRESS MAIL NO. 87575402303 DATE DEPOSITED: 11/17/2004
US. Patent Application
Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al. Group: 1647
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D. Examiner: L. Spector
Docket No. 5820.603
SHEET 16 OF 42 FORMAL DRAWINGS

Figure 16



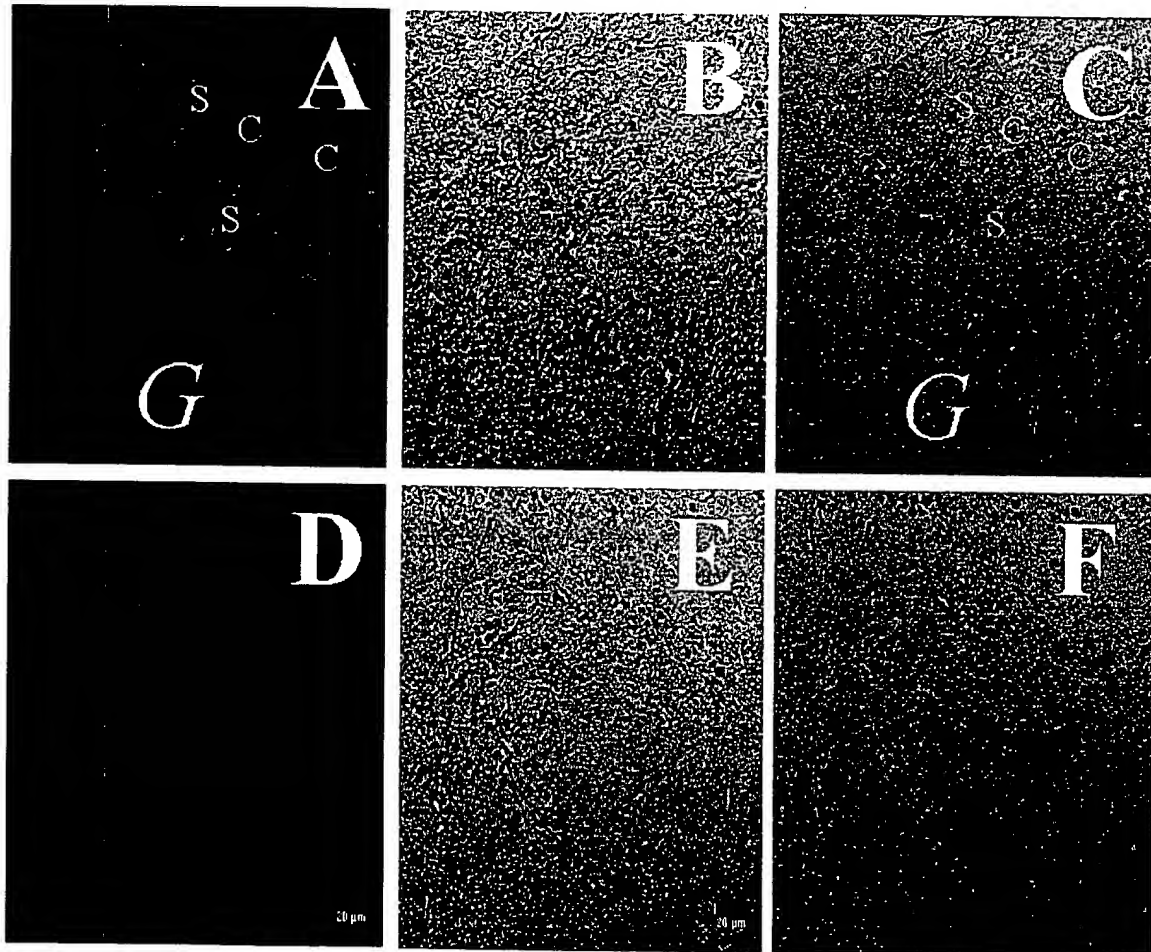
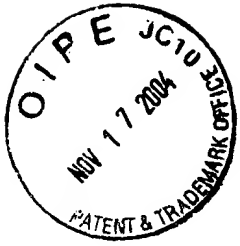


Figure 17

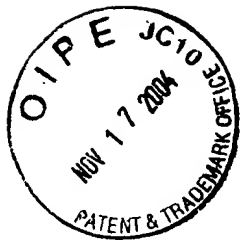
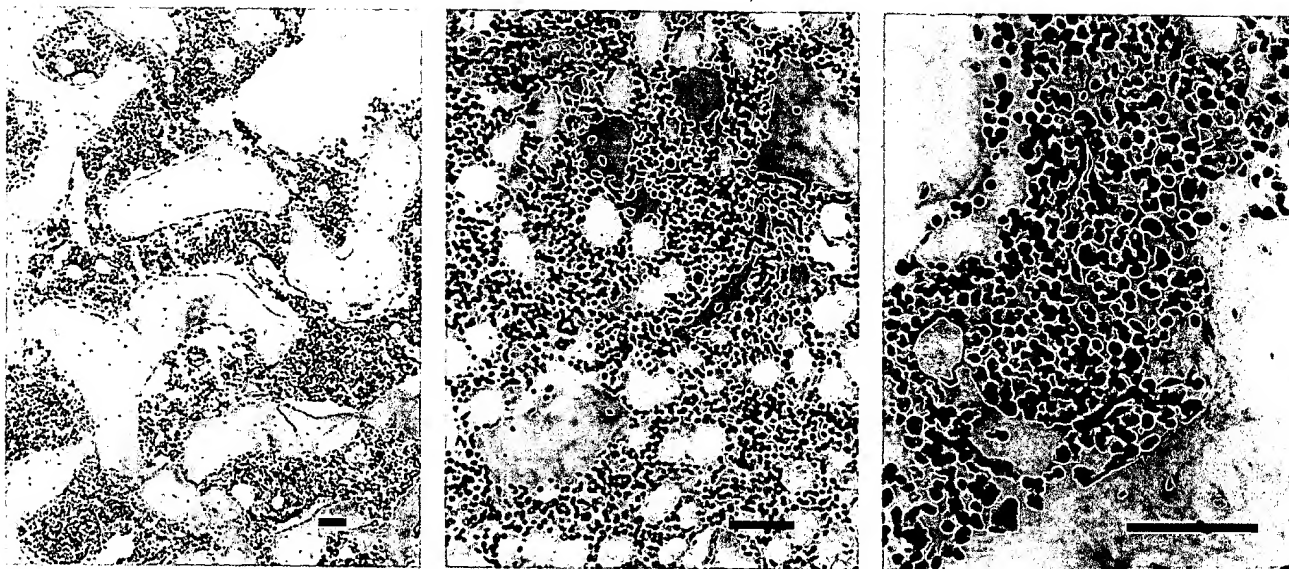


Figure 18

Immunolocalization of HARE in Bone Marrow

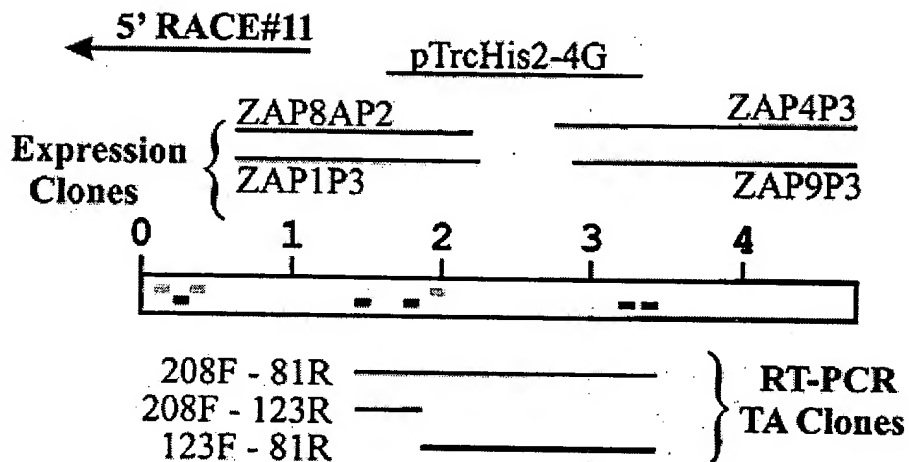
Control



Bars = 50 um



Figure 19



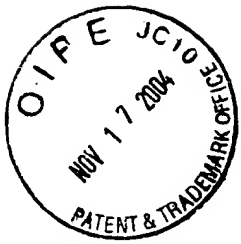
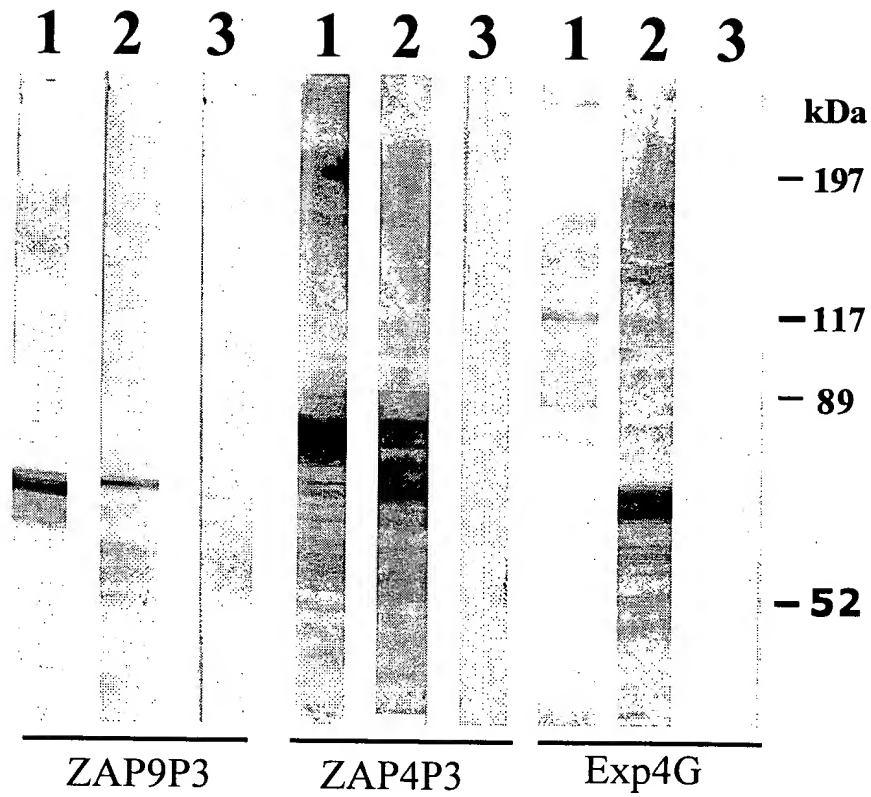


Figure 20



[illegible]

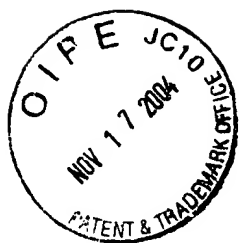
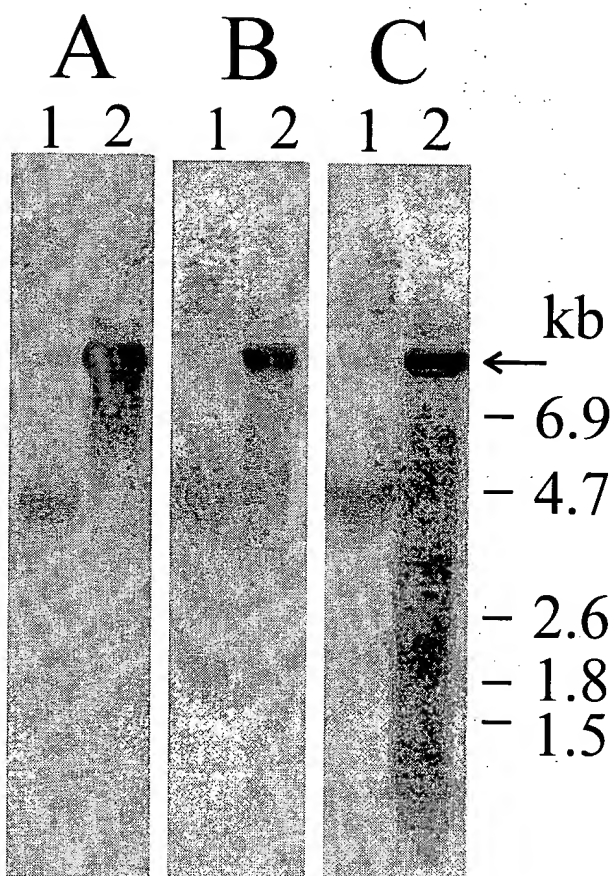
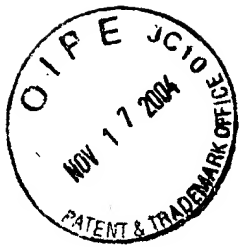


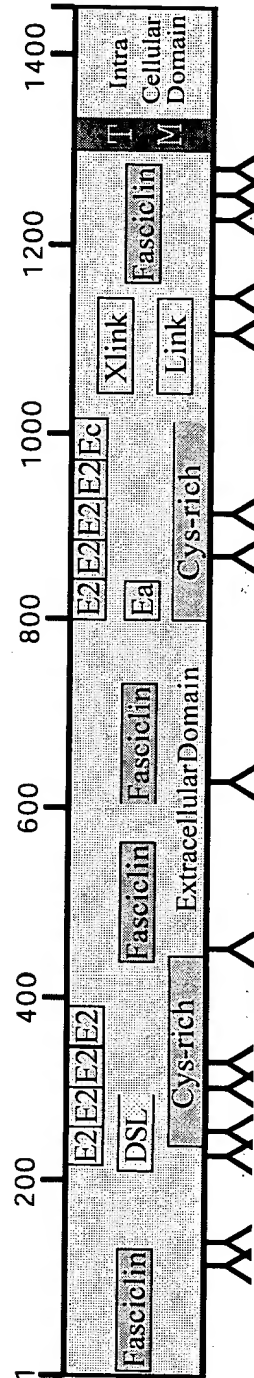
Figure 22





EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004
US. Patent Application
Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al. Group: 1647
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D. Examiner: L. Spector
Docket No. 5820.603
SHEET 23 OF 42 FORMAL DRAWINGS

Figure 23





EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004
US. Patent Application
Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al. Group: 1647
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D. Examiner: L. Spector
Docket No. 5820.603
SHEET 24 OF 42 FORMAL DRAWINGS

Figure 24

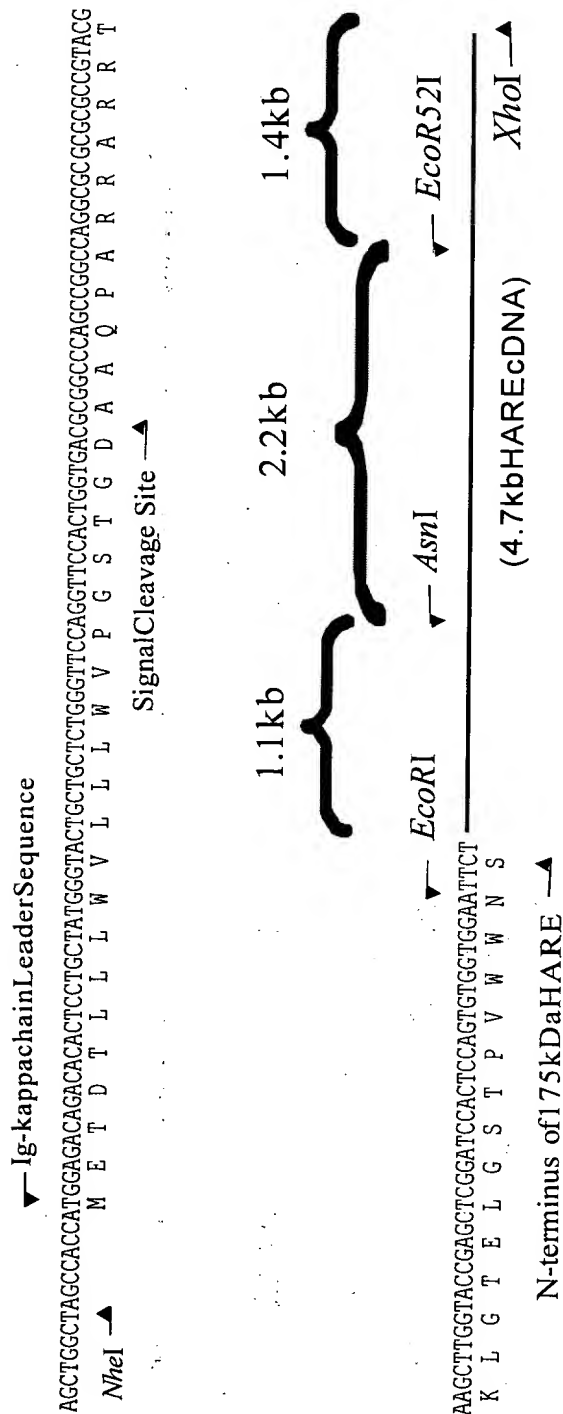
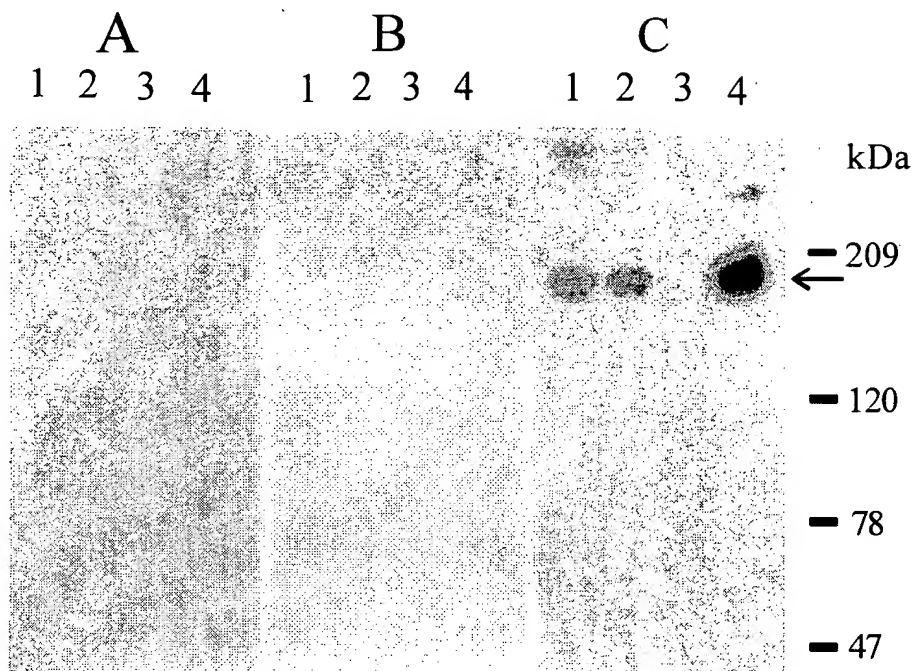
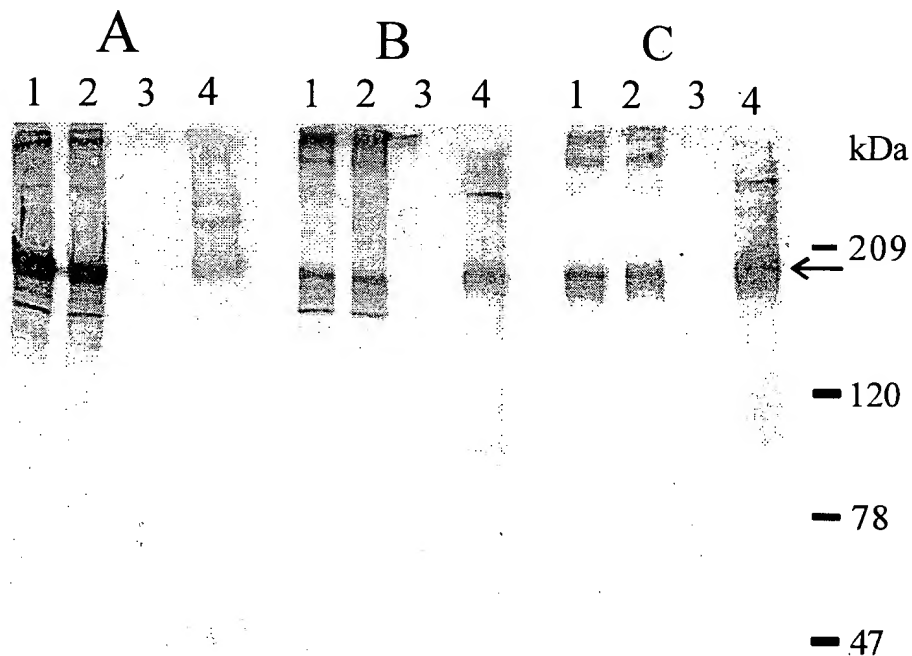


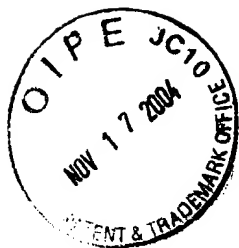
Figure 25

Autoradiography



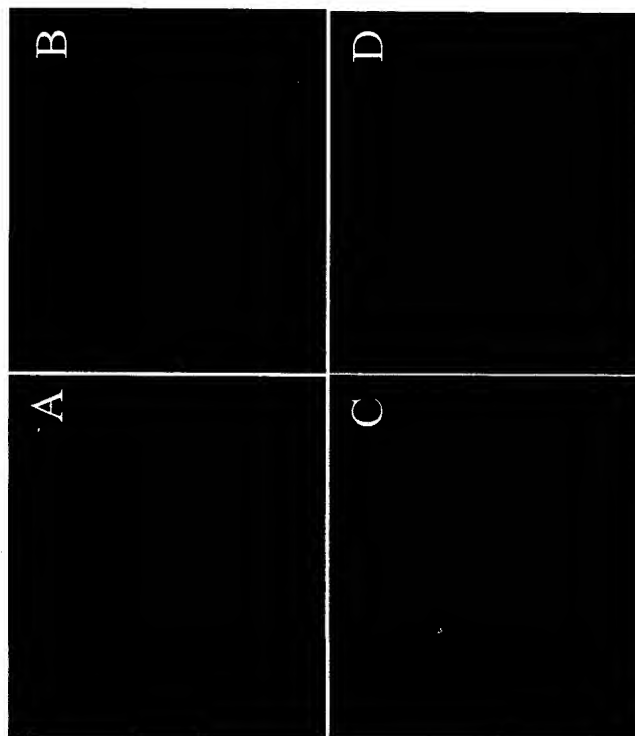
Western Blot

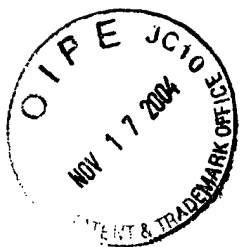




EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004
US. Patent Application
Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al. Group: 1647
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D. Examiner: L. Spector
Docket No. 5820.603
SHEET 26 OF 42 FORMAL DRAWINGS

Figure 26





EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004
US. Patent Application
Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al. Group: 1647
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D. Examiner: L. Spector
Docket No. 5820.603
SHEET 27 OF 42 FORMAL DRAWINGS

Figure 27A

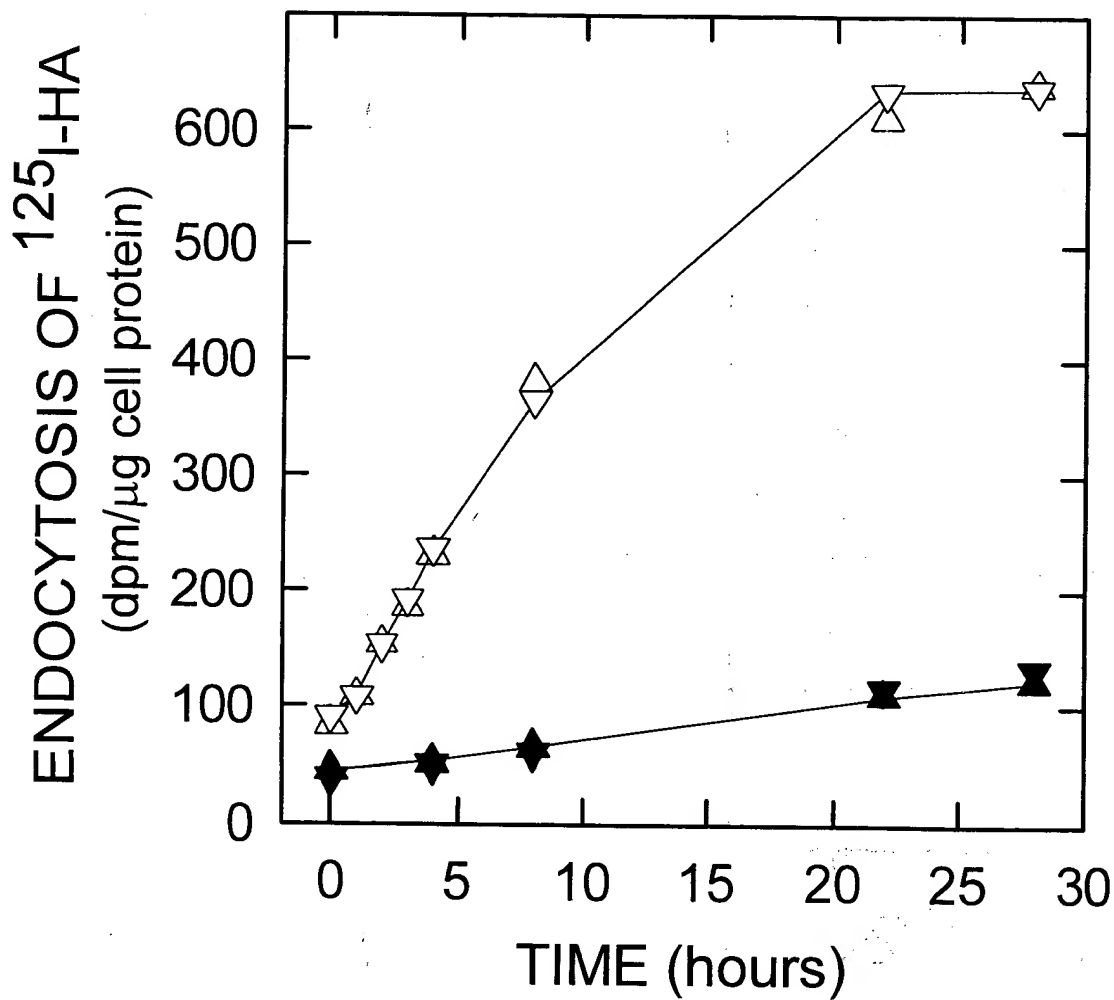
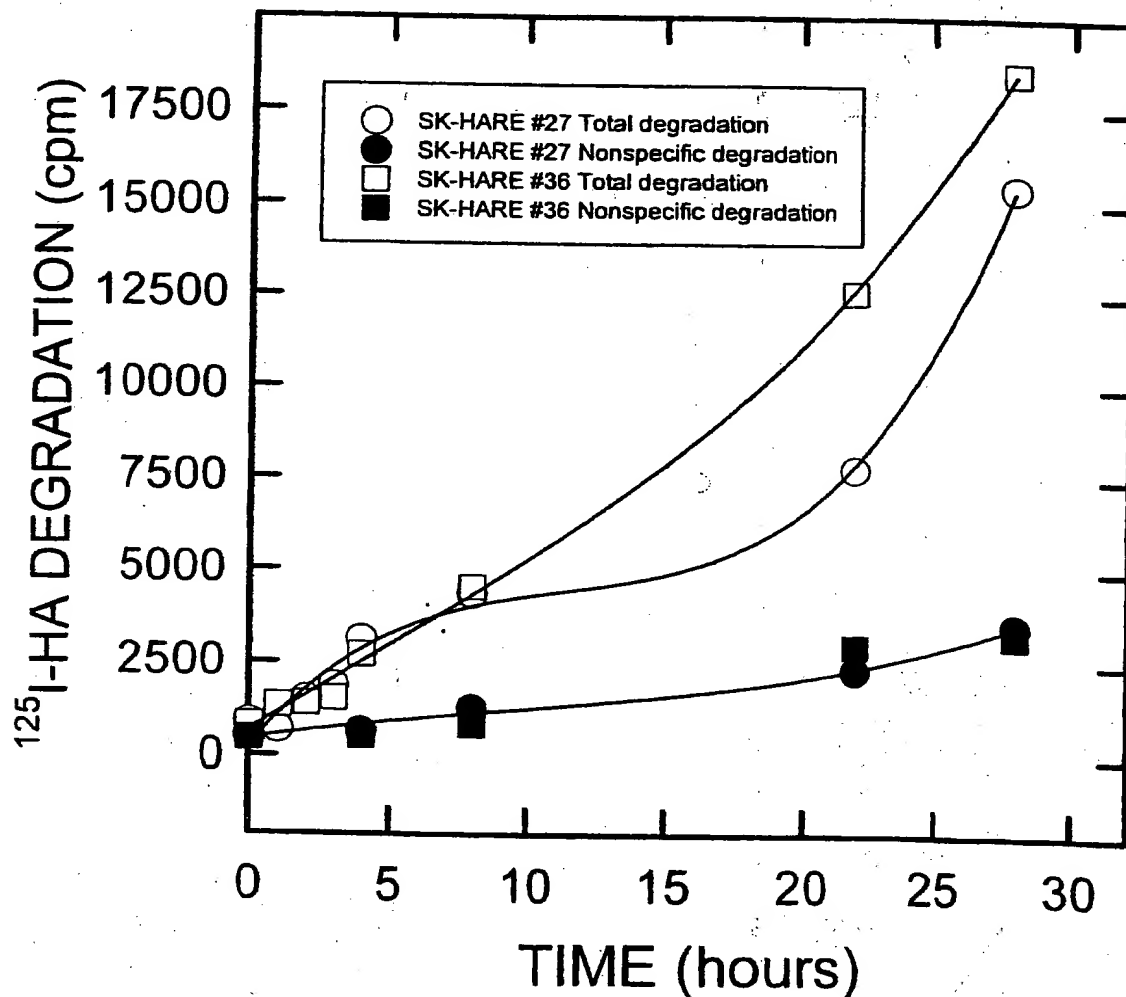




Figure 27B

Degradation of internalized HA by transfected SK-Hep1 cell lines expressing the 175-kDa HARE



EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004

US. Patent Application

Serial No.:

09/842,930

Title:

HYALURONAN RECEPTOR FOR ENDOCYTOSIS

Inventor:

Paul H. Weigel et al.

Group: 1647

Filed:

April 25, 2001

Agent:

Kathryn L. Hester, Ph.D.

Examiner: L. Spector

Docket No.

5820.603

SHEET 28 OF 42

FORMAL DRAWINGS

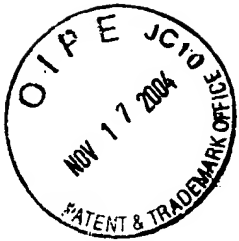
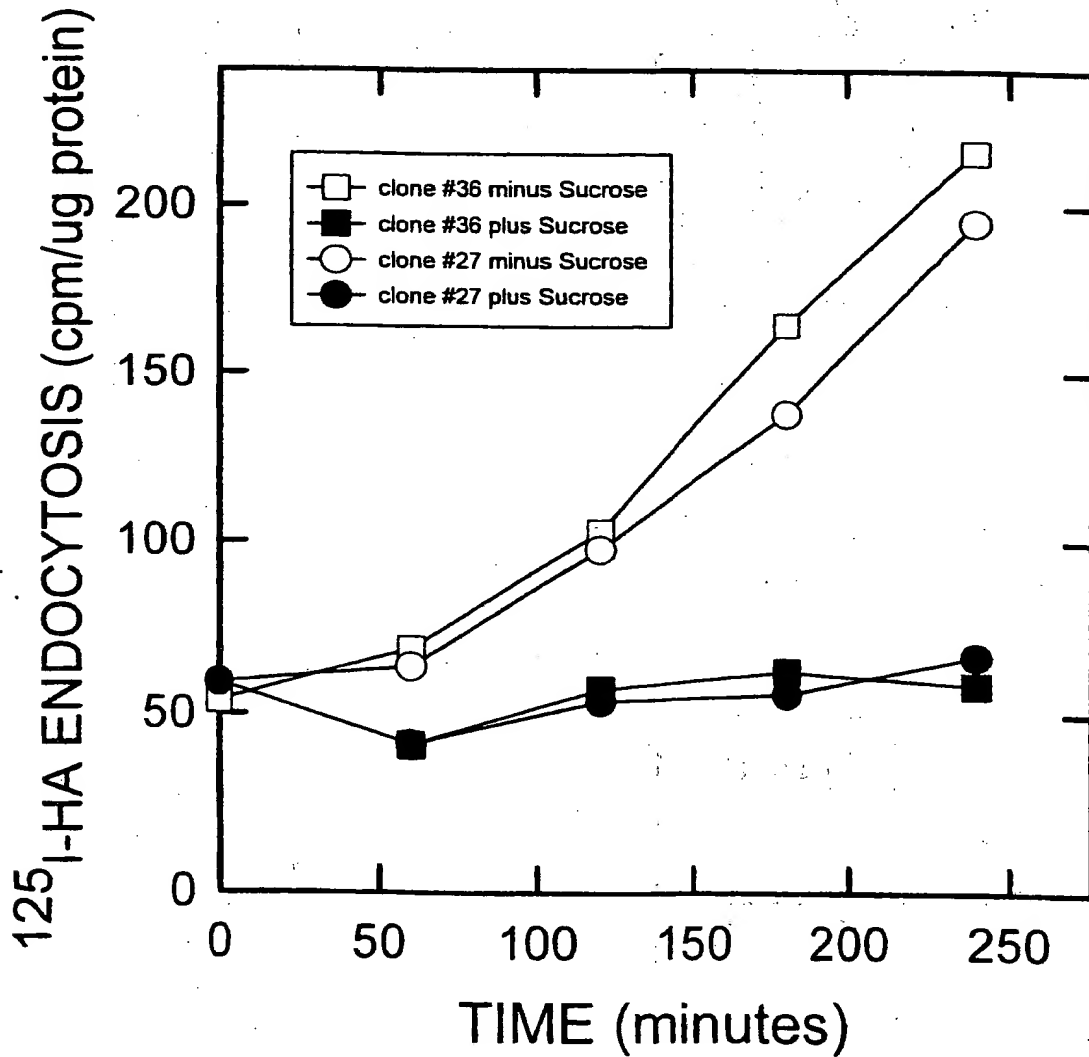


Figure 27C

Hyperosmolarity inhibits HA endocytosis mediated by HARE in transfected SK-Hep1 cells



EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004

US. Patent Application

Serial No.:

09/842,930

Title:

HYALURONAN RECEPTOR FOR ENDOCYTOSIS

Inventor:

Paul H. Weigel et al.

Group: 1647

Filed:

April 25, 2001

Agent:

Kathryn L. Hester, Ph.D.

Examiner: L. Spector

Docket No.

5820.603

SHEET 29 OF 42

FORMAL DRAWINGS

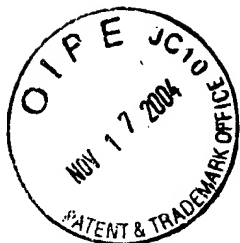


Figure 27D

**Specific monoclonal antibodies against HARE
inhibit HA endocytosis in SK-Hep1
transfectants expressing the 175-kDa HARE**

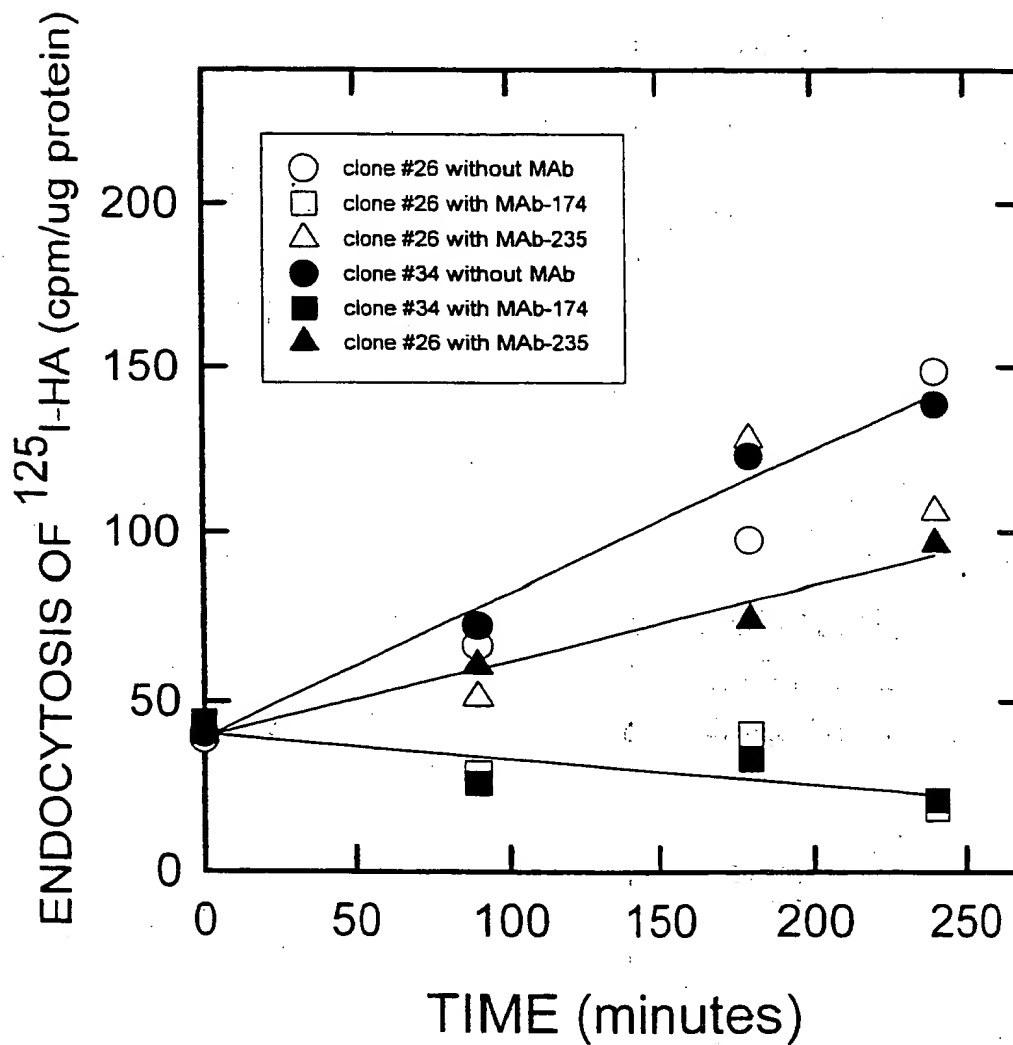




Figure 28

17SHARE 1 -----SLPS LLTRLEQMPD YSIFRGYIH YNLASAIESA DAYTVFVFN EAIENYIREK KATS LKED IL RYHVVLGEKL LKNDLHNGMH RETMLGFSYL
CAB61827 1111 LHLSQVLLP PRGDVPGGQG LLQQLDLVPA FSLFRELLOH HGLVQPIEAA TATTIFVPTN RSLAA---QG NSSHLOAD TV RHHVVLGEAL SMETLRKGH RNSLLGPAHW
BAA13377 754 LHLSQVLLP PRGDVPGGQG LLQQLDLV-A FSLFRELLOH HGLVQPIEAA TATTIFVPTN RSLAA---QG NSSHLOAD TV RHHVVLGEAL SMETLRKGH RNSLLGPAHW

17SHARE 95 LAFFLNDQL YVNEAPINYT NVATDRGVH GLEKVLIEQK NRDNNDTII VRGESSKSO QAPLELETKP LRETRK---TY SIYFMGRSV FICQPOVVR TIITRPLWA
CAB61827 1218 IAVYVNHSGP EVNHVPLEGP MLEAPGRSLI GLSGVLTVGS SRRLSHSHAE LREXVNMTRA RFRPTQGFQL QDTPRKSQVY RSGFSFSR---GISTYAK KIQVDEICPG
BAA13377 861 IAVYVNHSGP EVNHVPLEGP MLEAPGRSLI GLSGVLTVGS SRRLSHSHAE LREXVNMTRA RFRPTQGFQL QDTPRKSQVY RSGFSFSR---GISTYAK KIQVDEICPG

17SHARE 204 SLAHNAKPAP GEVX-MALG TASVWDGVNG TGTSGLGFG NGTATETETE GRYGTHDQA GSVVHGHSQ GPLDGGSD DVGWRGVND MEITTDNMG THTSANGLL
BAA15793 1 HLFGWS--DG TCVGHEGEG SGTATETETE GRYGTHDQA GSVVHGHSQ GPLDGGSD DVGWRGVND MEITTDNMG THTSANGLL
CAB61358 1 HLFGWS--DG TCVGHEGEG SGTATETETE GRYGTHDQA GSVVHGHSQ GPLDGGSD DVGWRGVND MEITTDNMG THTSANGLL
CAB61827 1224 FFGTLCPCP GGLGGVSS-G HGQCQORFLG SGEGHEGEG HGTADEVDEL GRYGPNITGV DSHAGHSQE GLQDGGSE NVWGQGLRND QKITSPOPR KDDPNANVQ
BAA13377 967 FFGTLCPCP GGLGGVSS-G HGQCQORFLG SGEGHEGEG HGTADEVDEL GRYGPNITGV DSHAGHSQE GLQDGGSE NVWGQGLRND QKITSPOPR KDDPNANVQ

17SHARE 313 DPDGKASNG AAGFRNGTV STAINAET S NGGSKAKAI KRTPGNRV VIKAGYTG DG IVLEINPL ENHGGDNA DTTQGPNOA VNLPLKYG DG-KVSLIN
BAA15793 90 NSDGTASNG AAGFGNGTI STAINAET S NGGSKAKAI KRTPGNRV VIKAGYTG DG IVLEINPL ENHGGDNA DTTQGPNOA VNLPLKYG DG-KVSLIN
CAB61358 3 EAVGTASNG AAGFGNGTI STAINAET S NGGSKAKAI KRTPGNRV VIKAGYTG DG IVLEINPL ENHGGDNA DTTQGPNOA VNLPLKYG DG-KVSLIN
CAB61827 1433 DSAGASTNG AAGYSGNGIF SEVDPAHNG HGGSPHANG TKVAPQRT TQDGYMDG ELQEQINS L IHGGCHIEA DTTQGPNOA VNLPLKYG DG-KVSLIN
BAA13377 1076 DSAGASTNG AAGYSGNGIF SEVDPAHNG HGGSPHANG TKVAPQRT TQDGYMDG ELQEQINS L IHGGCHIEA DTTQGPNOA VNLPLKYG DG-KVSLIN

17SHARE 422 VLTNNGGS PFALNYTEQ DQRITDKPD Y-TGDGIVR GSIYGLPKN PSTSYFFQL QEHAVRELQ PGPFVTFAP --LSSSFNHE PRKNDWDOQ IMSQVLRHYV
BAA15793 199 VLTNNGGS PFALNYTEQ DQRITDKPD Y-TGDGIVR GSIYGLPKN PSTSYFFQL QEHAVRELQ PGPFVTFAP --LSSSFNHE PRKNDWDOQ IMSQVLRHYV
CAB61358 112 VLTNNGGS PFALNYTEQ DQRITDKPD Y-TGDGIVR GSIYGLPKN PSTSYFFQL QEHAVRELQ PGPFVTFAP --LSSSFNHE PRKNDWDOQ IMSQVLRHYV
BAA15793 1 VLTNNGGS PFALNYTEQ DQRITDKPD Y-TGDGIVR GSIYGLPKN PSTSYFFQL QEHAVRELQ PGPFVTFAP --LSSSFNHE PRKNDWDOQ IMSQVLRHYV
CAB61827 1543 FSKNNGGS PYATKSTGD QORTTIDTA HTVGDLGTL ARVGLELLRD KHAS---FFSL RLLEYKELKG DGPFTTIFVPH ADLMSNLSD ELARIRAHQ L---VFRTHV
BAA13377 1186 FSKNNGGS PYATKSTGD QORTTIDTA HTVGDLGTL ARVGLELLRD KHAS---FFSL RLLEYKELKG DGPFTTIFVPH ADLMSNLSD ELARIRAHQ L---VFRTHV

17SHARE 528 VGLQLLDN LKVTTSATLL QGEPVSI SVS QDTVFINNKA KVLSSDIIST NGVHVIDKL LSPKNLLITP KDALGRVLQN LTTVAANHGY TKFSKLQDS GLLSVITDSI
BAA15793 305 VGLQLLDN LKVTTSATLL QGEPVSI SVS QDTVFINNKA KVLSSDIIST NGVHVIDKL LSPKNLLITP KDALGRVLQN LTTVAANHGY TKFSKLQDS GLLSVITDSI
CAB61358 218 VGLQLLDN LKVTTSATLL QGEPVSI SVS QDTVFINNKA KVLSSDIIST NGVHVIDKL LSPKNLLITP KDALGRVLQN LTTVAANHGY TKFSKLQDS GLLSVITDSI
BAA15793 10 VGLQLLDN LKVTTSATLL QGEPVSI SVS QDTVFINNKA KVLSSDIIST NGVHVIDKL LSPKNLLITP KDALGRVLQN LTTVAANHGY TKFSKLQDS GLLSVITDSI
CAB61827 1648 VGLQLLDN LKVTTSATLL QGEPVSI SVS QDTVFINNKA KVLSSDIIST NGVHVIDKL LSPKNLLITP KDALGRVLQN LTTVAANHGY TKFSKLQDS GLLSVITDSI
BAA13377 1291 VGLQLLDN LKVTTSATLL QGEPVSI SVS QDTVFINNKA KVLSSDIIST NGVHVIDKL LSPKNLLITP KDALGRVLQN LTTVAANHGY TKFSKLQDS GLLSVITDSI

17SHARE 638 HTPVTVFWPT DKALEALPPE QDQFLFNQDN KDKLKEYLKF HVIROSKALA SDLPASAWK TLQGSLSVR GTGSDIGEL FINEQRFI HRGLFDFGV AYGIDLLIM
BAA15793 415 HTPVTVFWPT DKALEALPPE QDQFLFNQDN KDKLKEYLKF HVIROSKALA SDLPASAWK TLQGSLSVR GTGSDIGEL FINEQRFI HRGLFDFGV AYGIDLLIM
CAB61358 328 HTPVTVFWPT DKALEALPPE QDQFLFNQDN KDKLKEYLKF HVIROSKALA SDLPASAWK TLQGSLSVR GTGSDIGEL FINEQRFI HRGLFDFGV AYGIDLLIM
BAA15793 120 HTPVTVFWPT DKALEALPPE QDQFLFNQDN KDKLKEYLKF HVIROSKALA SDLPASAWK TLQGSLSVR GTGSDIGEL FINEQRFI HRGLFDFGV AYGIDLLIM
CAB61827 1758 HTPVTVFWPT DKALEALPPE QDQFLFNQDN KDKLKEYLKF HVIROSKALA SDLPASAWK TLQGSLSVR GTGSDIGEL FINEQRFI HRGLFDFGV AYGIDLLIM
BAA13377 1401 HTPVTVFWPT DKALEALPPE QDQFLFNQDN KDKLKEYLKF HVIROSKALA SDLPASAWK TLQGSLSVR GTGSDIGEL FINEQRFI HRGLFDFGV AYGIDLLIM

17SHARE 748 PTIGGRDPT TTFDIP-GS GSILTPKXP LKSPKGVKX K---LY---NLPF R-----RNVE-G QNITVVIQT PRGHEFYMP DQAPGGPD
BAA15793 525 PTIGGRDPT TTFDIP-GS GSILTPKXP LKSPKGVKX K---LY---NLPF R-----RNVE-G QNITVVIQT PRGHEFYMP DQAPGGPD
CAB61358 438 PTIGGRDPT TTFDIP-GS GSILTPKXP LKSPKGVKX K---LY---NLPF R-----RNVE-G QNITVVIQT PRGHEFYMP DQAPGGPD
BAA15793 230 PTIGGRDPT TTFDIP-GS GSILTPKXP LKSPKGVKX K---LY---NLPF R-----RNVE-G QNITVVIQT PRGHEFYMP DQAPGGPD
CAB61827 1867 PTIGGRDPT TTFDIP-GS GSILTPKXP LKSPKGVKX K---LY---NLPF R-----RNVE-G QNITVVIQT PRGHEFYMP DQAPGGPD
BAA13377 1510 PTIGGRDPT TTFDIP-GS GSILTPKXP LKSPKGVKX K---LY---NLPF R-----RNVE-G QNITVVIQT PRGHEFYMP DQAPGGPD

17SHARE 833 TPNNRNGVL DLYTPMGQL DHTGNGTAS ELWNGRFGP DLPQPSSEH GQDDEGITS GQDDEGWT AASDTPAV FAVTTPA SV HATKENNT VNLNVEGDD
BAA15793 609 TPNNRNGVL DLYTPMGQL DHTGNGTAS ELWNGRFGP DLPQPSSEH GQDDEGITS GQDDEGWT AASDTPAV FAVTTPA SV HATKENNT VNLNVEGDD
CAB61358 522 TPNNRNGVL DLYTPMGQL DHTGNGTAS ELWNGRFGP DLPQPSSEH GQDDEGITS GQDDEGWT AASDTPAV FAVTTPA SV HATKENNT VNLNVEGDD
BAA15793 314 TPNNRNGVL DLYTPMGQL DHTGNGTAS ELWNGRFGP DLPQPSSEH GQDDEGITS GQDDEGWT AASDTPAV FAVTTPA SV HATKENNT VNLNVEGDD
CAB61827 1977 TPNNRNGVL DLYTPMGQL DHTGNGTAS ELWNGRFGP DLPQPSSEH GQDDEGITS GQDDEGWT AASDTPAV FAVTTPA SV HATKENNT VNLNVEGDD
BAA13377 1620 TPNNRNGVL DLYTPMGQL DHTGNGTAS ELWNGRFGP DLPQPSSEH GQDDEGITS GQDDEGWT AASDTPAV FAVTTPA SV HATKENNT VNLNVEGDD

17SHARE 943 ITTVVDLQK QNNGGAKVA KSGKGTQVS KSGKGTQVS GYSIETIDP ADGVNGGHE HATKMTGPG KKHGKSHY VGDGLN-EP EQLPIDRLQ DNGGHEPDAS
BAA15793 715 ITTVVDLQK QNNGGAKVA KSGKGTQVS KSGKGTQVS GYSIETIDP ADGVNGGHE HATKMTGPG KKHGKSHY VGDGLN-EP EQLPIDRLQ DNGGHEPDAS
CAB61358 632 ITTVVDLQK QNNGGAKVA KSGKGTQVS KSGKGTQVS GYSIETIDP ADGVNGGHE HATKMTGPG KKHGKSHY VGDGLN-EP EQLPIDRLQ DNGGHEPDAS
BAA15793 424 ITTVVDLQK QNNGGAKVA KSGKGTQVS KSGKGTQVS GYSIETIDP ADGVNGGHE HATKMTGPG KKHGKSHY VGDGLN-EP EQLPIDRLQ DNGGHEPDAS
CAB61827 2087 ITTVVDLQK QNNGGAKVA KSGKGTQVS KSGKGTQVS GYSIETIDP ADGVNGGHE HATKMTGPG KKHGKSHY VGDGLN-EP EQLPIDRLQ DNGGHEPDAS
BAA13377 1730 ITTVVDLQK QNNGGAKVA KSGKGTQVS KSGKGTQVS GYSIETIDP ADGVNGGHE HATKMTGPG KKHGKSHY VGDGLN-EP EQLPIDRLQ DNGGHEPDAS

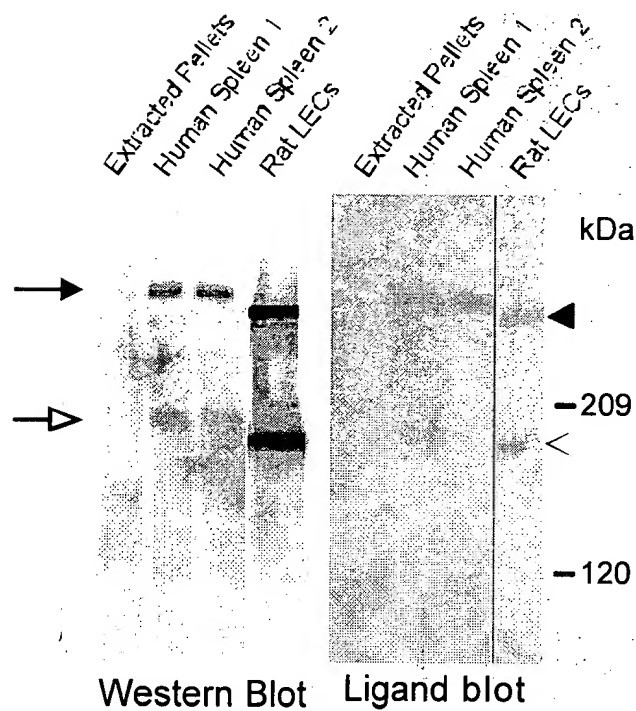
17SHARE 1052 ADLYFQDPT VGVEHLRSLP GQYKLTFDKA KEAANEAAAT IATYNQLSYA QKAKYHISA GWLESGRVAY PTTFASQNG ANVVGIVDYG SRANKSEMWD VRYRMDKN
BAA15793 826 ADLYFQDPT VGVEHLRSLP GQYKLTFDKA KEAANEAAAT IATYNQLSYA QKAKYHISA GWLESGRVAY PTTFASQNG ANVVGIVDYG SRANKSEMWD VRYRMDKN
CAB61358 741 ADLYFQDPT VGVEHLRSLP GQYKLTFDKA KEAANEAAAT IATYNQLSYA QKAKYHISA GWLESGRVAY PTTFASQNG ANVVGIVDYG SRANKSEMWD VRYRMDKN
BAA15793 2197 ADLYFQDPT VGVEHLRSLP GQYKLTFDKA KEAANEAAAT IATYNQLSYA QKAKYHISA GWLESGRVAY PTTFASQNG ANVVGIVDYG SRANKSEMWD VRYRMDKN
CAB61827 1840 ADLYFQDPT VGVEHLRSLP GQYKLTFDKA KEAANEAAAT IATYNQLSYA QKAKYHISA GWLESGRVAY PTTFASQNG ANVVGIVDYG SRANKSEMWD VRYRMDKN
BAA13377 1840 ADLYFQDPT VGVEHLRSLP GQYKLTFDKA KEAANEAAAT IATYNQLSYA QKAKYHISA GWLESGRVAY PTTFASQNG ANVVGIVDYG SRANKSEMWD VRYRMDKN

17SHARE 1162 ITKAGYVGD GFS-BSGNLL QVLMSPFSLT NFLTEVLAYS KSSARGAFL KHLTDLISRG TLFVPQNSGL PGNXSLSGRD IEHHLTVNV SFYNDLVNGT FLRTMLGSL
BAA15793 938 ITKAGYVGD GFS-BSGNLL QVLMSPFSLT NFLTEVLAYS KSSARGAFL KHLTDLISRG TLFVPQNSGL PGNXSLSGRD IEHHLTVNV SFYNDLVNGT FLRTMLGSL
CAB61358 849 ITKAGYVGD GFS-BSGNLL QVLMSPFSLT NFLTEVLAYS KSSARGAFL KHLTDLISRG TLFVPQNSGL PGNXSLSGRD IEHHLTVNV SFYNDLVNGT FLRTMLGSL
BAA15793 643 ITKAGYVGD GFS-BSGNLL QVLMSPFSLT NFLTEVLAYS KSSARGAFL KHLTDLISRG TLFVPQNSGL PGNXSLSGRD IEHHLTVNV SFYNDLVNGT FLRTMLGSL
CAB61827 2307 ITKAGYVGD GFS-BSGNLL QVLMSPFSLT NFLTEVLAYS KSSARGAFL KHLTDLISRG TLFVPQNSGL PGNXSLSGRD IEHHLTVNV SFYNDLVNGT FLRTMLGSL
BAA13377 1950 ITKAGYVGD GFS-BSGNLL QVLMSPFSLT NFLTEVLAYS KSSARGAFL KHLTDLISRG TLFVPQNSGL PGNXSLSGRD IEHHLTVNV SFYNDLVNGT FLRTMLGSL

17SHARE 1271 LITFS---QD LQHQ-STRFV DGRSILQWDI IAANGIIHVI SEPLRAPPTA ATA---AHSG LGTIFCAV LVTGAIA-L AYSYFIRL RTTG---FOH DQKRTLMSWL
BAA15793 1047 LITFS---QD LQHQ-STRFV DGRSILQWDI IAANGIIHVI SEPLRAPPTA ATA---AHSG LGTIFCAV LVTGAIA-L AYSYFIRL RTTG---FOH DQKRTLMSWL
CAB61358 924 LITFS---QD LQHQ-STRFV DGRSILQWDI IAANGIIHVI SEPLRAPPTA ATA---AHSG LGTIFCAV LVTGAIA-L AYSYFIRL RTTG---FOH DQKRTLMSWL
BAA15793 752 LITFS---QD LQHQ-STRFV DGRSILQWDI IAANGIIHVI SEPLRAPPTA ATA---AHSG LGTIFCAV LVTGAIA-L AYSYFIRL RTTG---FOH DQKRTLMSWL
CAB61827 2416 IISDAGPDNS SWAPVAPGTV VWSRIIVWDI MAFNGIIHAL ASPLIAPPQ QAVIAPPQ VAVG--GAV LAAGALLGLV AGATYLRAR KPMGFGSAF QAEEDADDFF
BAA13377 2059 IISDAGPDNS SWAPVAPGTV VWSRIIVWDI MAFNGIIHAL ASPLIAPPQ QAVIAPPQ VAVG--GAV LAAGALLGLV AGATYLRAR KPMGFGSAF QAEEDADDFF

17SHARE 1370 LASSSP-RIS QTLCMRQRR HQSPPVTPS QTLNRIWRT ATLWGHCGPD MRSQATTVT VPR
BAA15793 1147 LAGQQFENIS NPLY-ESTTS APPEPSYDPF TDSKER-----QLEGNPD LRTL
CAB61358 1024 LAGQQFENIS NPLY-ESTTS APPEPSYDPF TDSKER-----QLEGNPD LRTL
BAA15793 852 LAGQQFENIS NPLY-ESTTS APPEPSYDPF TDSKER-----QLEGNPD LRTL
CAB61827 2524 SPWQ-EGTN PTLVSVPNV FGSDFCEPF DD-----SLEEEDFPD TQRIITVK--
BAA13377 2166 SPWQ-EGTN PTLVSVPNV FGSDFCEPF DD-----SLEEEDFPD TQRIITVK--

Figure 29



US. Patent Application

Serial No.: 09/842,930

Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS

Inventor: Paul H. Weigel et al.

Group: 1647

Filed: April 25, 2001

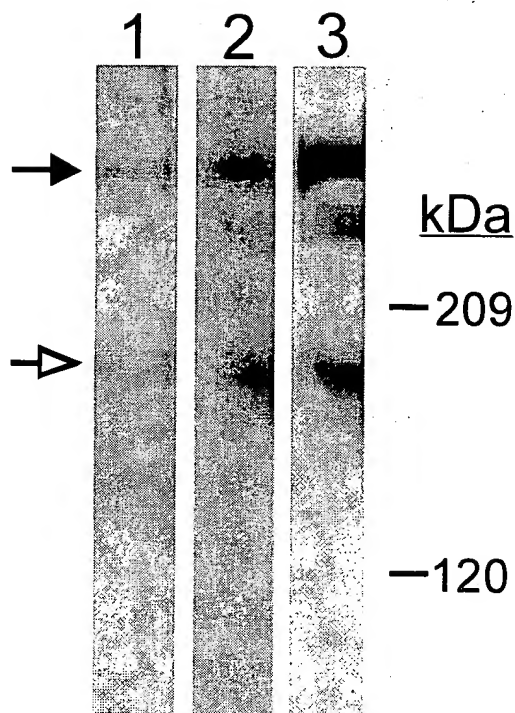
Agent: Kathryn L. Hester, Ph.D.

Examiner: L. Spector

Docket No. 5820.603

SHEET 33 OF 42 FORMAL DRAWINGS

Figure 3 0





EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004
US. Patent Application
Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al. Group: 1647
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D. Examiner: L. Spector
Docket No. 5820.603
SHEET 34 OF 42 FORMAL DRAWINGS

Figure 31

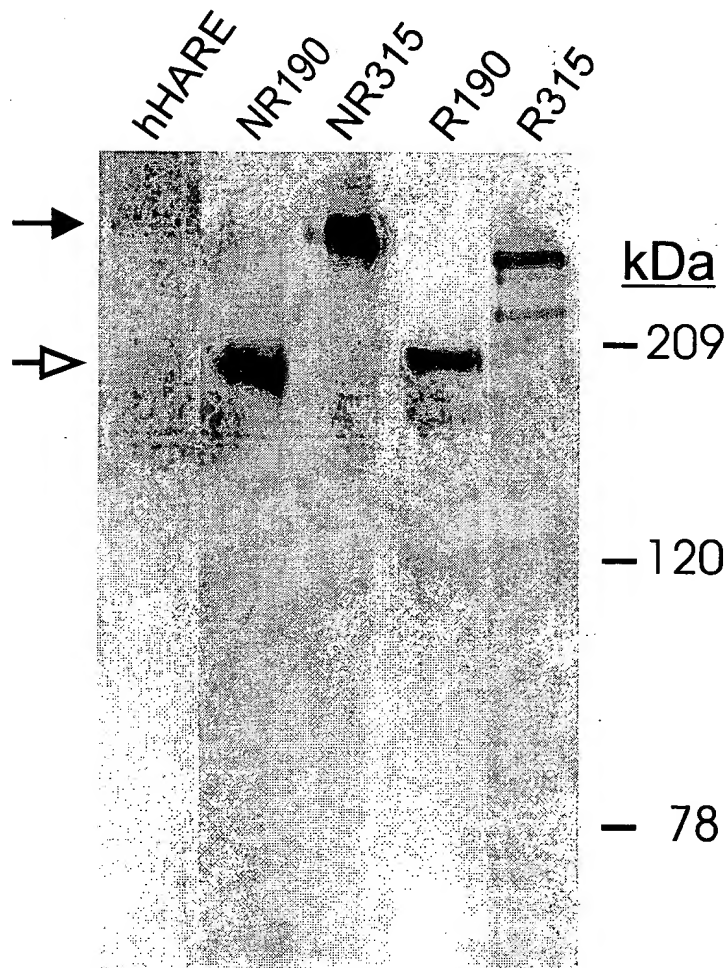
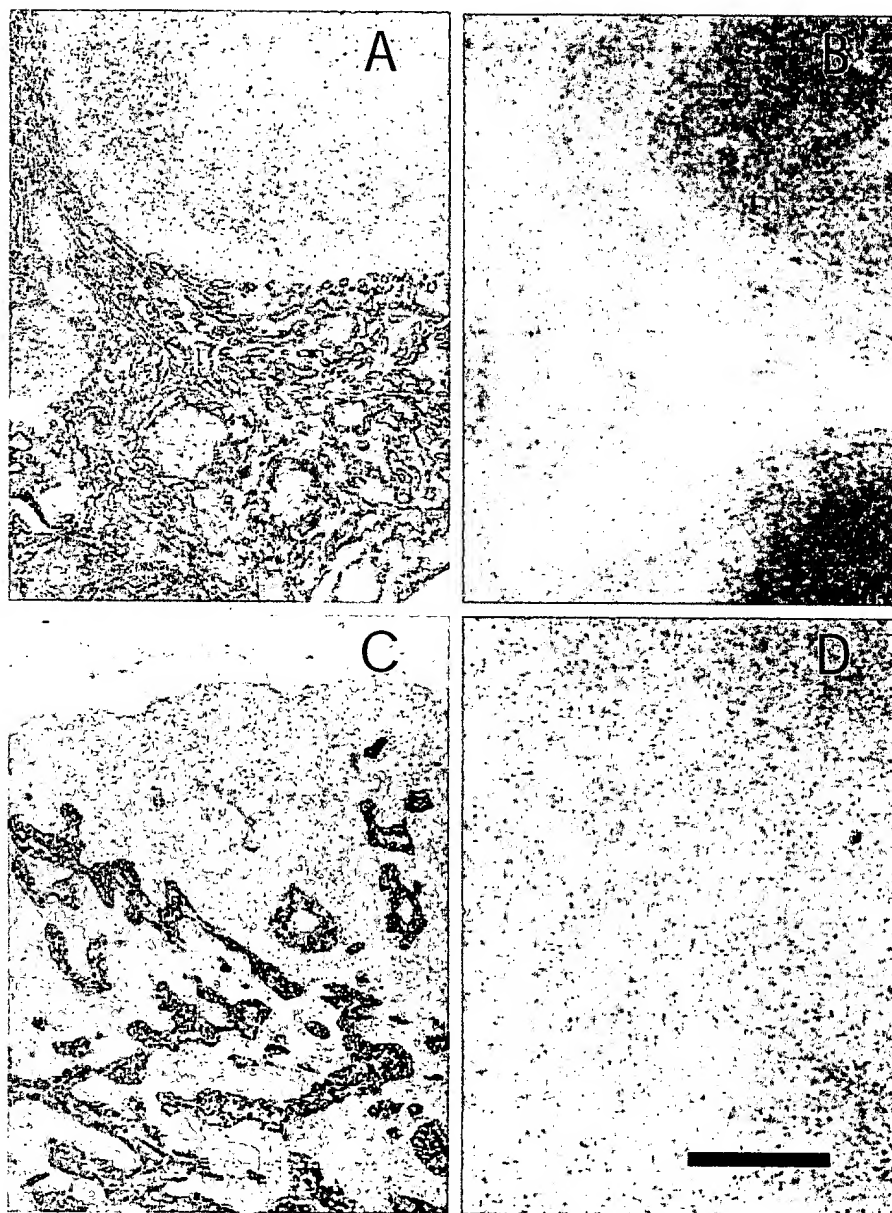




Figure 3 2



09/842.930

HYALURONAN RECEPTOR FOR ENDOCYTOSIS

Group: 1647

Examiner: L. Spector

FORMAL DRAWINGS

Figure 33

ATTCATTAATCAATCGGGCAATGCAATGAGGCTGCCGATGCGCTACACAGTGTTCCTCCAAACCAACATGCCATCGAGAATTACATCAGGAGGAGAAGAACTTCTGTCTAGAGGAGGAC
1 I Q Y N L A N A N I E A A D A Y T V F A P N N N A I E N Y I R E K K V L S L E E D

121 GTCCCTCCGGTATCATGTGGCTCGGAGGAGAACTCCTGAAGATGACCTGCACAAATGCGATGCGTGGAGACATGCTGGGTTCCTCTCTCTTCTCCATAATGAC
41 V L R Y T H V V L E E K L L K N D L H N G M B R E T M L G F S Y F L S T F L H N D

281 CAGCTCTATGTAATGAGGCTCCAATAACATCAACCAATGAGCCATGAAGGAGATGATGACCTGGCTGGGAAATTTCTGGAATTCAGAAACACAGATGTGATATATGACACT
41 Q L Y V N E A P I N Y T N V A T D K G V I H G L G K V L E I Q K N R C D N N D T

361 ACTATTATACGAGGAAGATGTAGGACATGCTCCTCAGAGCTGACCTGCCATTCGGAATAATCTCTAGGTAAATGAGAGAGGAGATGCATCTATACCTCTATTCTATGGAAGACGA
121 T I I R G R C R T C S S E L T C P F G T K S L G N E K R R C I Y T S Y F M G R R

481 ACCCTGTTTATGCGTGCCACGAAATGTGTGAGAACCGCTCATGACAGATGCTGCTGGCGCTCTTTGSCCCCAATGCCAGCCCTGTCCAGGGAATGCCAGAAATGTCTGCTTT
161 T L F I G C O P K C V R T V I T R E C C A G S G P Q C O P C P G N A O N V C F

601 GGTAATGGCATGTTTGGATGGAGTGAATGCGACAGGTGTGTGTGATGTGTTGGGAGGGCTTCAGCGGACAGCTGCGAGATCTGCACGAGGCGAAGTACGCGATCCACTGTGACCAA
201 G N G I C L D G V N G T G V C E G G E G F S G S G T A C E T C T E G K Y G I H C D Q

721 GCATCTTCTGTGTCATGGGAGATGCAACCAAGGACCTTGGGAGATGGCTCTGTGACTGTGATGTTGGCTGGCAGGAGTGCAATGTGACAATGCAACCAAGGAGCACTGCAAT
241 A C S C V H G R C N Q G P L G D G S C D C D V G W R G V H C D N A T T E D N C N

841 GGGACATGCCATACCCAGGCACTGCCCACTCAGATGGTACAGTTCATGCAAGTGTGACGAGGATCCCAAGGAAACGGGACCATTCGCACGAATCAATGCCTGTGAGATC
281 G T C H T S A N C C L T N S D G T A S C K A A G F Q G N G T I C T A I N A C E I

961 AGCAATGGAGGTTGCTCGCAAGGCTGACCTGAAGAGAACCCAGGAGGAGGAGTGTGACGTGCAAGAGAGGCTACACGGGTGATGGCAATGTGTGCTGGAAATCAACCCGTGT
321 S N G G C C S A K K D A C T K R T T P G R V R T C T C A K A G Y T G D G I V L C L E I N P C A

1081 TTGGAGAACCATTGGTGGCTGTGACAAGATCGGAGTGACACAGACAGGACCAACAGGCTGCTGTAAGCTTTGGCAGCATACCTGGAGATGGAAGGTGTGCACACTCATCAAT
361 L E N H G G C D K N A E C T T G T P N Q A A C N C L P A Y A T C T G D G K V C T C A C T L I N

1201 GTCTGCTTAACATAAAATGGCGGCTGTAGTGAATTTGCCATCTGCAACCACTGGGCAAGTAGAAGGACTGTACTTGCAGGCAACATACATTTGGAGATGGATTTACCTGGCCGGG
401 V C L T T K N G G C S E F A I C N H T G Q V E R T C T C K P N Y I G D G F T C R G

1321 AGCAATTTATCAGGAGTCTCCCAACCAACCCGAAATCTCCGATTTCTCCAGTTGCGAGGACATTCGGAATTTCTGGTGGGCCAGGCCCTTCACTGTTTTCGACCTTTATCT
441 S I Y Q E L P K N P A K T S O Y Y F F O L Q E H F V K I D L V G P G P F L T V F A P L S

1441 GCAGCCTTTGATGAGGAAGCTCGGTTAAAGACTGGGACAAATACGGTTTAAATGCCAGGTTCTTCGTACCATGTGGTGGCTGCGCCAGGCTGCTTCGGAACCACTGAATTTGATC
481 A A F D C C E E A R V K A D D D K I Y G L M P Q V L R Y H V V A C H Q Q L L L E N C L K L I

1561 TCAATGTCTACTTCCCTCAAGGAGGCCATAGTCTCCGCTCTCAGACAGCGGTGTATATAAACAATAAGGCTAAGATCATATCCAGTGTATATCATGACTACTAATGGGATTTGT
521 S N A T S L C C A G G A G S C A T A G T C T C C G C T C T C A G A C A G C G G T G T A T A A A C A A T A A G G C T A A G A T C A T A T C A G T A C T A T G G G A T T G T T

1681 CATATCATAGACAAATGCTATCTCCCAAAATTTGCTTATCACTCCCAAGACNSTGTGGAAGATTTGTGCAAAATCTTACGATTTGGCAACAAACAAATGGCTACATCAATTTAGC
561 H I I D T G L L T S P K N N L L T I T C A C T C C A A G A C N S T G A A G R I L Q N L T T L A T N G Y I K F S

1801 AACTTAATACAGGACTCAGGTTTGTGTGATGTCATCACCATCCACACCCAGTCACTCTCTTGGCCACCGACCAAGCCCTCCATGCCCTGCTGAACACAGGAGCTTC
601 N L I Q D S G L L S V I T P I H T P V T L F W P T D Q A L H A L P A E Q Q D F

1921 CTGTTCAACCAACCAAGGACCAAGCTGAAGGAGTATTGAAGTTTCATGTGATGAGATGCCAAGGTTTATGCTGTGATCTCCCACTCCATGCTGGAACCCCTGCAAGGT
641 L F N Q D N K K L K E Y L K I F H V I R D A K V L A V D L P T S T A W K I T L Q G

2041 TCAGAGCTGAGTGTGAATTTGTGAGCTGGCAGGACATCGGTGACCTCTTTCTGAATGGCCAACTTCGAAATTTGTGACGCGGAGCTCTTGTGTGACCTGGGTGTGGCTACGCGATT
681 S E L S Y K I C G A G R D I G D L F L N G T C R I V Q R E L F D L G V A Y G I

2161 GACTGTCTGTGATTTGATCCACCTCGGGGGCGCTGTGACACCTTTACTACTTTTCATGCTCGGGGGAGTGTGGAGCTGTGCAATATCCCACTGCCCCAAGTGTGATTAACCA
721 D C L L I D P T L L G G R C D T F T T F D A S G E G C G S C V N T P S C P R W S K P

2281 AAGCTGTGTGAAGCAGAGTGTCTCTCAACCTGCCCTCAAGAGGAACCTGGAAGGCTCGCGGAGCGGTGACGCTGGTGATACAGCTCCCAAGGTGCTGCAAGGCTACTTCGGGCGA
761 K G V K Q K C L Y N L F F K R N L E G C R E R C S L V I Q I P R C C K I G Y C R I

2401 GACTGTGAGGCTGCTGAGGAGGACAGATGCCCTGTGAATACCCGGGTGTGCTGCTGTGATGATGCTGCGCCACCGGAGGTGAATGCAACACCGGCTCAATGGGAGCGGCTGT
801 D C Q A C P G G P D A P C N N R G V C L D Q Y S A T G E C K N T G F N G T A C

2521 GAGATGTGCTGGCCGGGAGATTTGGGCTGATTGTCTGCCCTGTGGCTGCTCAGACCCAGGACGTGCGATGATGCGATCACGGGCTCGGCGAGTGCCTCTGTGAACGGGTTGGACA
841 E M C W P G R F G P D C L P C G C S D H G Q C D D G I T G S S Q C C L T G T G A A C G G G T G G A C A

2641 GGCCCTCGTGTGACACTCAGGCGATTTGGCTGCAATGTGTGACGCTCTCTGCTGCTGATGCGCCATGTGAAGGAGAACCAAGCTGTGAGTGTGAACCTGGATTTGAAGGTGACGGA
881 G P S C D T Q A V L P A V C T P P C S A H A T C K E N N T C E C N L D Y E G D G

2761 ATCACTGCACAGTGTGGATTTCTGCAACAGGACCAACCGGGCTGTGCAAGGTGGCCAGATGCTCCAGAAAGGACCAAGGCTCTCTGCACTGCCAGAGGATGACAAAGGGAC
921 I T C T V V D F C K Q D N G K C A V A R C S Q K G T K V S C S C Q K G Y K G D

2881 GGGCAGCTGCACAGAGATAGACCCCTGTGACAGGCGGCTTAACGGAGGTTGACGAGCAGCCACTGTGAAGTACAGGCGGCGGACAGCACAAGTGTGAGTGTAAAGTCACTAT
961 G H S C T A E I D P C A D G L N G G C C H E H A T C K M T G A C A G C G C G G G C A A G C A A G T G T G A T G T A A A G T C A C T A T

3001 GTCCGAGATGGCTGAGCTGTAGCGGGAGCAGTCCCATTTGACCGCTGCTTACAGGACAATGGGAGTGCATGACAGCGCAAAATGTGTGACCTCCATCTCCAGGATACCACTGTT
1001 V G D G L N C E F E Q L P I D R C T L Q D N G C C H A D A K C V D L H F Q D I T V

3121 GGGGTTCCTCATCTACGCTCCCACTGGGCGAGTATAGCTGACCTTTGACAAAGGACAGAGGCTGTGCCAACGAAGCTGCGACCATGGCAACCTACAACCACTCTCTATGCGCCAG
1041 G V F H C L R S S P L G Q Y Y F T D K A R I E A C C A N E A A T M A T Y N Q L S Y A Q

3241 AAGGCCAAGTATCCCTGTGCTCAGCAGGCTGGCTGGAGACCGGCTGGCTACCCACAGCCTTCGCTCCAGAACTGTGGCTGTGGTGTGGATGTGGCATATGGACCT
1081 K A K Y H L C S A G W L E T G R V A Y P T A F A S Q N C G S G V V G I V D Y G P

3361 AGACCCCAACAGAGTGAATGTGGATGTCTTGTGATTCGAGTGAAGATGAGTGTGACCTGCGAGGTGGGCTATGTGGAGATGGCTTCTATGAGTGGGAACTGCTGACAGGTC
1121 R P N K S E M W D V F C Y R M K D V N C T C K V G Y V G D G T C F S C S G N L Q V

3481 CTGATGTCTTCCCTCAGTCAACAACTTCTGACGGAAGTGTGGCTTATCCCAAGCTCAGCTCGAGGCGGTGCAATTTAGAACACCTGACTGAGCTGTGATCTGGGACCCCTC
1161 L M S F P S L T N F L T E V L A Y S N S S A R G R A F L E H L T D L S I R G G T L

3601 TTTGTGCCACAGAACAGTGGGCTGGGAGCAATGAGACCTGTCTGGCGGACCTCAGCACCACCTGCCAATGTGACGATGTTTCTACAATGACCTTGTCAATGGCACCCTG
1201 F V P Q N S G L G E N E T L S G R D I E H H L A N V S M F F Y N D L V N G T T L

3721 CAAACAGGCTGGGAAGCAAGTGTCTCATCTGACGACGAGGACCTTCAACGCGGAGGACAGGTTTGTGATGGAAGAGCAATCTGCAGTGGGACATTTGCTGCTCAATGGG
1241 Q T R L G S K L L T A T A S Q D P L Q P T E T R F V D G R A I L Q W D I F A S N G

3841 ATCATCTAGTTCATTTCCAGGCTTTAAAGCAACCCCTGCCCGGTGACCTTGACCCACACTGGCTTGGGAGCAGGATCTTCTTTGCAATCATCTGTGAGTGGGCTGTGCTGTTG
1281 I I H V I S R P L K A P A P V T L I H T G L G A G T F F A I I L V T G A V A L

3961 GCTGCTTCTCTCATCTTCGGATAACCGGAGAACAAATCGGCTTCAGCATTTTGTAGTGGAGAGGACATTAATGTGACGCTTGGCAGCAGCAGCTGAGAATATCTGCAACCC
1321 A A Y S Y F R I N R R T I G F Q H F E S E D I N V A L G K Q P E N I S N P

4081 TTGATGAGAGCAACCTCAGCTCCCCAGAACCTTCTACGACCCCTCAGGACCTCTGAAGACGCGAGCTTGAAGGCGAATGACCCCTTGAGGACAG

09/842,930

HYALURONAN RECEPTOR FOR ENDOCYTOSIS

Paul H. Weigel et al.

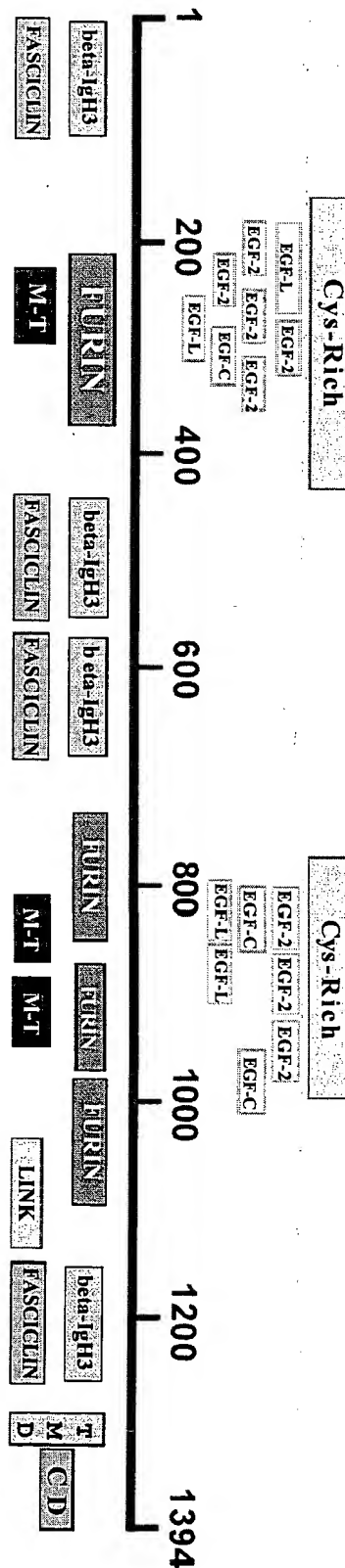
Group: 1647

April 25, 2001

Kathryn L. Hester, Ph.D.
5820.603

Examiner: L. Spector

FORMAL DRAWINGS



Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al. Group: 1647
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D. Examiner: L. Spector
Docket No. 5820.603

SHEET 38 OF 42 FORMAL DRAWINGS

Figure 35

hHARE 1 IQYNLANAIEADAYTVFAP NNNAIENYIREKKVLSIED VLRHVLEEKLLKNDLHNG MHRETMGFSEYFSLSEFLHND QLYVNEAPI MENDVATDKGV
hHARE 23 IHYNLASAIESADAYTVFVP NNEAIENYIREKKATSLKED ILRVHVLGEKLLKNDLHNG MHRETMGFSEYFSLSEFLHND QLYVNEAPI MENDVATDKGV
hHARE 101 IHGELKVEIÖKNE DNNDL TII RGR RT SSELT BEGT KSLGNEKRR IYTSYEMGR TLFIGBOK VRTVITRE C AGFEQOQCPGNAONVCF
hHARE 123 IHGELKVEIÖKNE DNNDL IIVRGE GSK SQAB PLET KPL-RETRK IYTSYEMGR SVFICQOQ VRTVITRA M LASLAHNAKPAPGEVKMCA
hHARE 201 GNGICLDGVNGIGV ESEGE FSGTA EIT TEGKYGIH DQ AS SVHGR NOGPIGDS ID DVGWRGVH DNATTEDN AN GHTHSAN LLTNSDGTAS K
hHARE 222 GTASVWDGVNIGITG GGLG FNGTAEIT TEGKYGIH DQ AS SVHGR NOGPIGDS ID DVGWRGVH DNATTEDN AN GHTHSAN LLTNSDGTAS K
hHARE 301 PAAGFQNGIITAINA EIT SNGG SAKAD KRTPGRAR ITKAGYTGDGIYLEINB LENHGG DNKAE TOTGPNO AAN LUPAYTGDKV TLIN
hHARE 322 PAAGFQNGIITAINA EIT SNGG SAKAD KRTPGRAR ITKAGYTGDGIYLEINB LENHGG DNKAE TOTGPNO AAN LUPAYTGDKV TLIN
hHARE 401 VLTKNGG SEFALIN Q VERI KPNYIGDET RG SIYQELPKNPKTSQYEFOLQ EHEVYKDLVGPPEFVFAPLS AAFDEARVKDWKYGIMPO
hHARE 422 VLTNNGG SPFAF NDL Q DORI KPDYTGDIYRG SIYQELPKNPKTSQYEFOLQ EHAHVELAGPPEFVFAPLS SFENHEPRIKDWDOGLMSQ
hHARE 501 VLRHYVA HOLLLENKLI SNATSLOGEPIVIVSOSTV YINNAKAIISDIIISTNGIY HIIDKLSPKNLLITPKDNS GRLOVITLATNNGYIKFS
hHARE 522 VLRHYVA HOLLLENKLI SNATSLOGEPIVIVSOSTV YINNAKAIISDIIISTNGIY HIIDKLSPKNLLITPKDNS GRLOVITLATNNGYIKFS
hHARE 601 NLIQDSGLSVITDPHTPV TLEWPTDQALHALPAEQODE LENQDNKDKLKEYLKEHVIR DAKVAVLDLPTSTAMKTLQG SELSVK GAGRIDGELFNG
hHARE 622 KLIQDSGLSVITDPHTPV TLEWPTDQALHALPAEQODE LENQDNKDKLKEYLKEHVIR DSKALASDLPRSASWKTLOG SELSVK GAGRIDGELFNG
hHARE 701 QTRIVORELLFDLGAAYGI DILLIDPTLGGR DFTTFED ASGSGSVNTSPS PRMSKP KGVKOK LYN-LEKRNLEG KERR SLVQIÖR KGYEG
hHARE 722 QTRIVORELLFDLGAAYGI DILLIDPTLGGR DFTTFED ASGSGSVNTSPS PRMSKP KGVKOK LYN-LEKRNLEG KERR SLVQIÖR KGYEG
hHARE 800 RDQA PGGPDARNNRGV LDOYSATGE KNTGNGIA ENWMPGRFGPD LPCGSD HGGDDGITGSGO L ETGM TQPS DTQAVLDAV TTPPS
hHARE 822 RDQA PGGPDARNNRGV LDOYSATGE KNTGNGIA ENWMPGRFGPD LPCGSD HGGDDGITGSGO L ETGM TQPS DTQAVLDAV TTPPS
hHARE 900 AHAT KENNI ENNDYEGD GITT TVVDE KÖDNGG AKV AFSÖKGTKVS SÖKGYKG DGHST EIDP ADGLNGG H EHA T KMTGPKHK EK KSH
hHARE 922 AHAT KENNI ENNDYEGD GITT TVVDE KÖDNGG AKV AFSÖKGTKVS SÖKGYKG DGHST EIDP ADGLNGG H EHA T KMTGPKHK EK KSH
hHAR 1000 YVGDGLN EPEOLPIÖR LQ DNGC HADAK VDLHEODTT VGEFHLRSPLOQYKLTEDKA REA ANEAATMA TYNÖLSYA OKAKYHL SAGMLETGRVAY
hHARE 1022 YVGDGLN EPEOLPIÖR LQ DNGC HADAK VDLHEODTT VGEFHLRSPLOQYKLTEDKA REA ANEAATMA TYNÖLSYA OKAKYHL SAGMLETGRVAY
hHARE 1100 PTAFA SÖN GSGVGVIVDYG PRBYS EMDV EYRMKDVN EIT KGVYGDGDS SGNLQ VMSFSPSLNTEVLAYSN SSARGRAFEHL TDLISIRGT
hHARE 1122 PTVYASÖK GANVGVIVDYG SPANKS EMDV EYRMKDVN EIT KGVYGDGDS SGNLQ VMSFSPSLNTEVLAYSN SSARGRAFEHL TDLISIRGT
hHARE 1200 LEVPÖNSGLGENETLSGRDI EHLLANVSMFEYNDLVNGIT LÖTRLSKULLITASÖDPIÖP TETREVDGRALIQWDIFASN GIHVISRPLKAPPAVTLT
hHARE 1222 LEVPÖNSGLGENETLSGRDI EHLLANVSMFEYNDLVNGIT LÖTRLSKULLITASÖDPIÖP TETREVDGRALIQWDIFASN GIHVISRPLKAPPAVTLT
hHARE 1300 HTGEGAGIFAILVTGAVA LAAYSYERINRRTIGFÖHE SEEDINVAALGKÖOPENISN PIESTH SAPPEPSYDPFTD SEERÖLEGNDBLRTL
hHARE 1321 HSGELGTICAVAVLTGALA LAAYSYERINRRTIGFÖHE SEEDINVAALGKÖOPENISN PIESTH SAPPEPSYDPFTD SEERÖLEGNDBLRTL
hHARE 1421 SQÖATTVTVP R



Figure 36

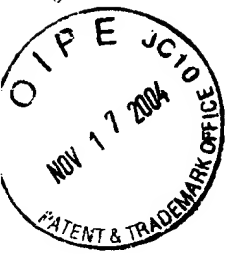
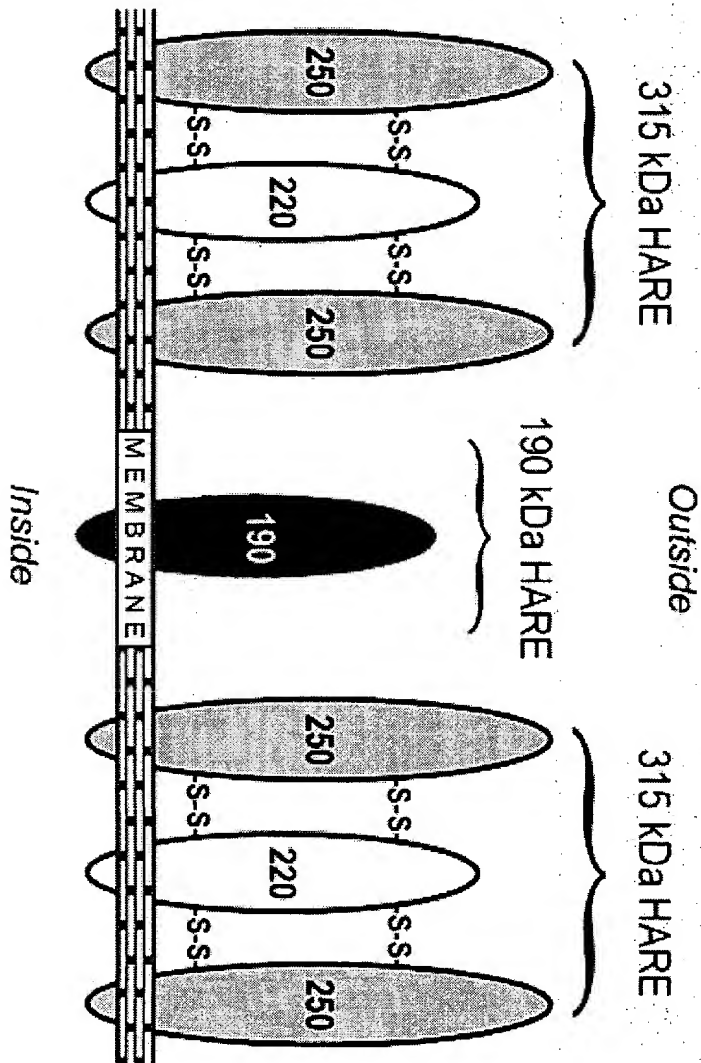
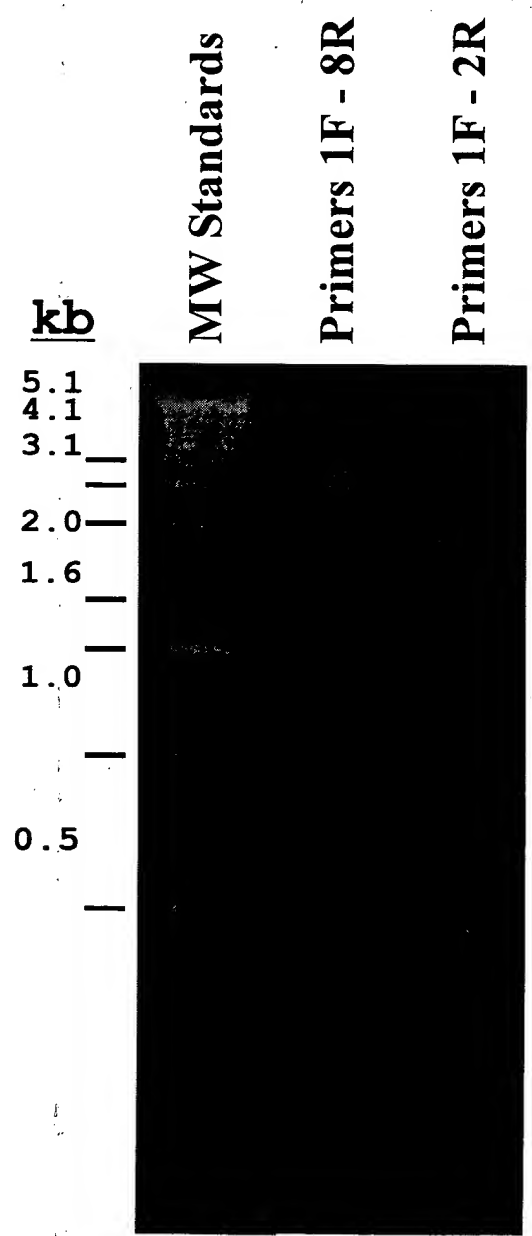




Figure 37

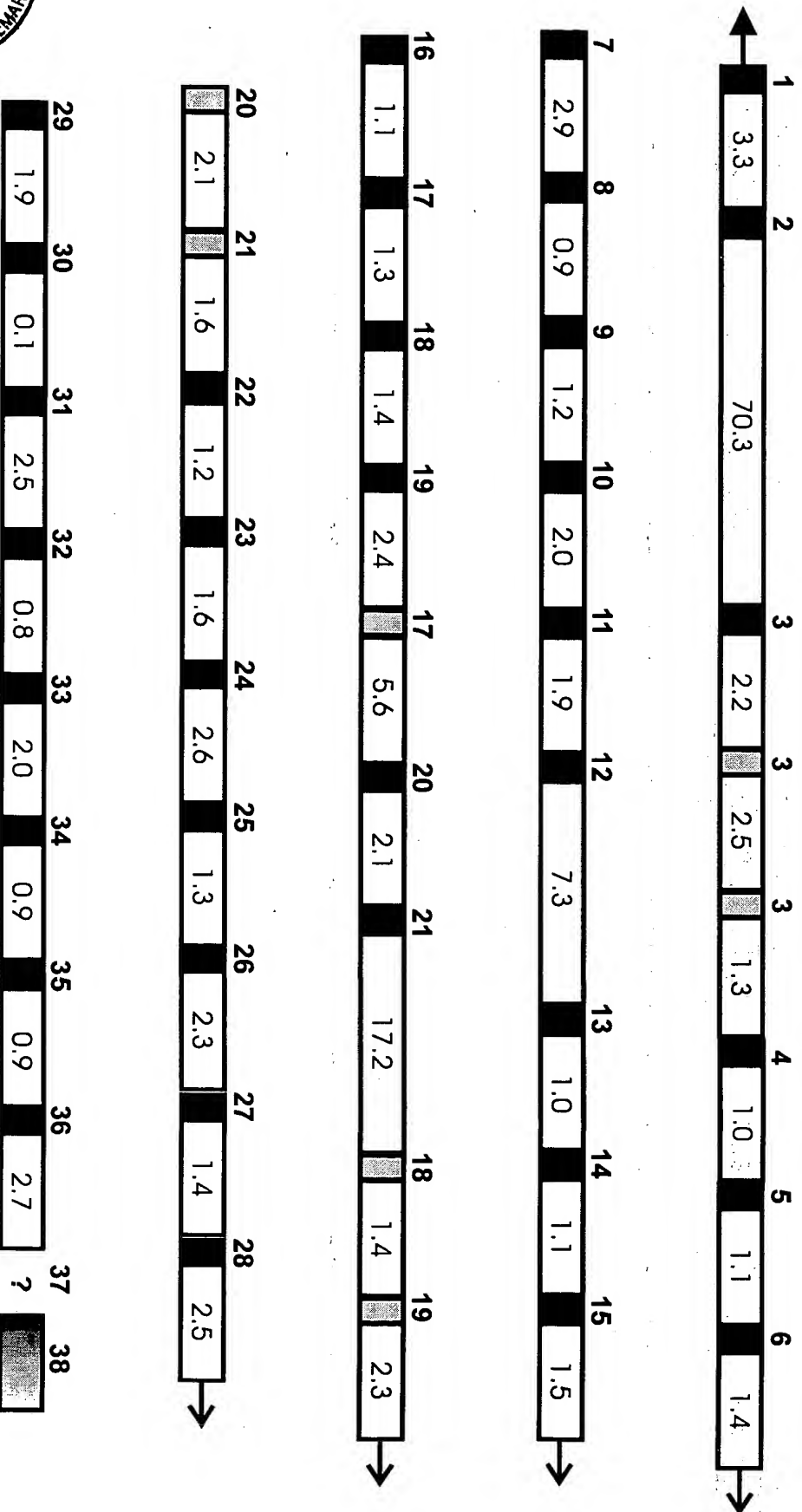
Amplification of the 1394 amino acid HARE
Open Reading Frame from a human lymph
node cDNA Library



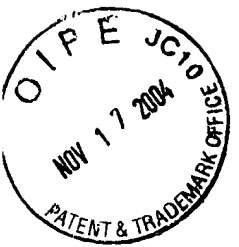
EXPRESS MAIL NO.: EV373446295US DATE DEPOSITED: 11/17/2004
US Patent Application
Serial No.: 09/842,930
Title: HYALURONAN RECEPTOR FOR ENDOCYTOSIS
Inventor: Paul H. Weigel et al. Group: 1647
Filed: April 25, 2001
Agent: Kathryn L. Hester, Ph.D.
Docket No. 5820.603
Examiner: L. Spector
SHEET 40 OF 42 FORMAL DRAWINGS

Figure 38

Schematic Organization of the Human HARE Gene on Chromosome 12
(encoding 1357 of the 1394 amino acids disclosed here)



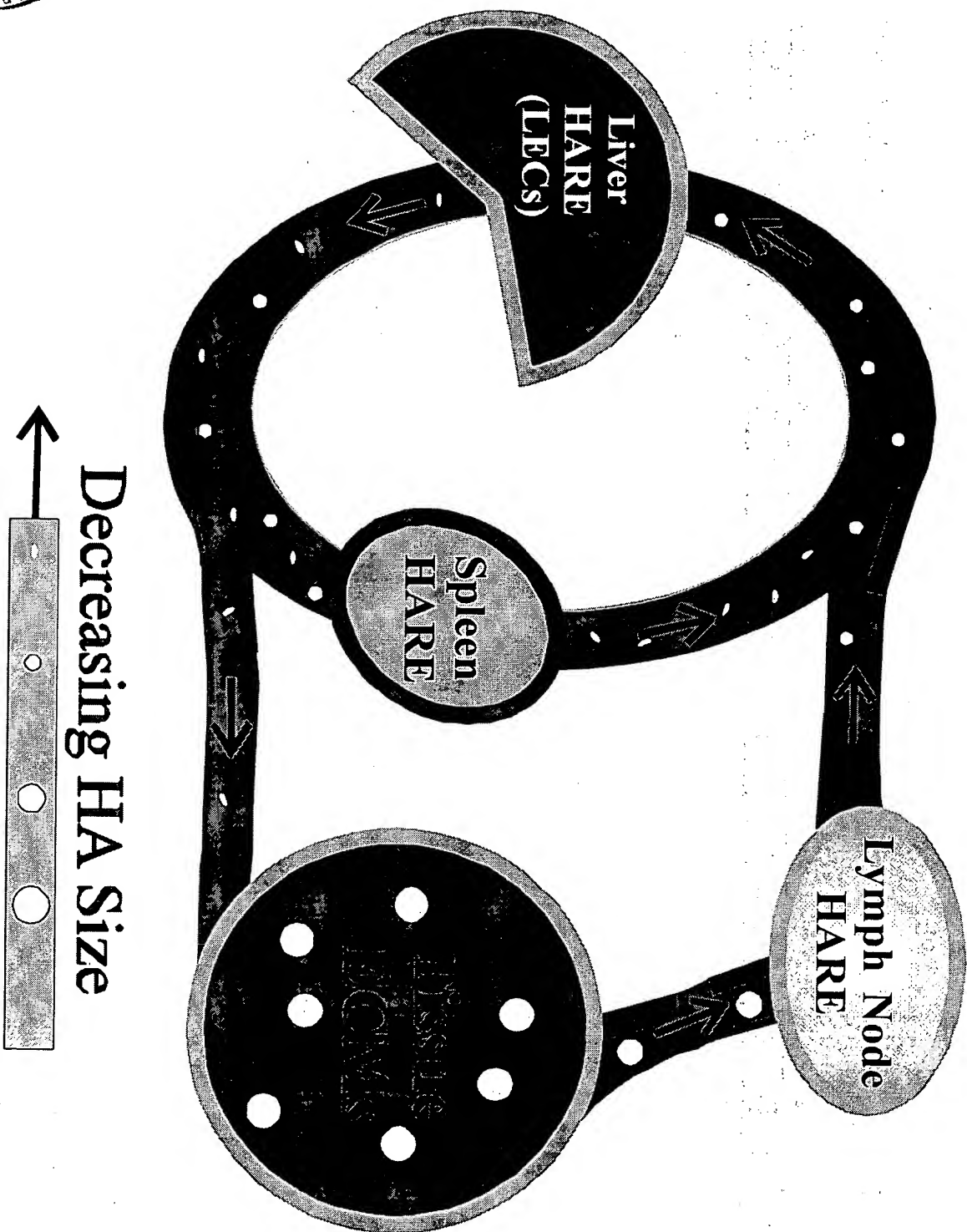
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Docket No. 5820.603
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FORMAL DRAWINGS

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Figure 3 9



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